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### SCREENING DECISION

### Date: May 3, 1999

Robert Moody Deputy Minister of Education Iqaluit, NT

Dear Mr. Moody:



Water Quality, Aquatic Plants, Habitat Population & Features, Hydrology, and Field Survey

### 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;

### 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:

- disposal of equipment and other waste materials;
- the impact and disturbance to marine mammals;
- the impact and disturbance to other marine traffic;
- community concern;
- Impact and disturbance of wildlife

### **Terms and Conditions:**

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

### Waste

- 1. The Permittee shall ensure that all wastes generated through the course of the operation are adequately disposed.
- The Permittee shall ensure that no substances, including any chemicals, fuels or wastes 2. associated with the project are deposited into the marine environment or any other water body.

### Fuel Use

3. The Permittee shall report all spills of fuel, or other deleterious materials immediately to the 24 hour Spill Line at (867) 920-8130.

### Wildlife

- 4. The Permittee shall ensure that there is minimal disturbance to any marine mammals and nesting birds in the area.
- The Permittee shall ensure that there is no damage to bird or wildlife habitat in conducting 5. this operation.
- 6. The Permittee shall ensure that there is minimal disturbance to any nesting birds and wildlife in the area. Harassment of wildlife is prohibited. This includes persistently worrying or chasing animals, or disturbing large groups of animals.
- The Permittee shall not hunt or fish, unless the appropriate permits and licenses are 7. acquired from a Renewable Resources Officer.
- 8. The harmful alteration, disruption or destruction of fish habitat is prohibited under the Fisheries Act. No construction or disturbance of any stream/lake bed or banks of any definable watercourse is permitted unless authorized by DFO.

### Archaeological Sites

 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 the attached letter.

### Other Recommendations

- NIRB would like to encourage the proponent to hire local people and services, to the extent
  possible and to consult with local residents regarding their activities in the region.
- 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 May 7/99 at Cambridge Bay, NT

Larry Pokok Aktavigak/Chairperson

Attachment: NIRB Screening Form

C.C. NWT Resources, Wildlife and Economic Development Department of Fisheries and Oceans Kivalliq Inuit Association Nunavut Water Board Prince of Wales Northern Heritage Center





May 4, 1999

To: Pam Coffin-MacAulay
Manager, Research Liaison
Nunavut Research Institute
Box 1720, Igaluit XOA 0H0

Dear Ms. Coffin-MacAulay:

Re: Water Quality, Aquatic Plants, Habitat Population & Features, Hydrology, and Field Survey
NIRB:99YN181 NR#891

Enclosed is the completed NIRB Screening Decision Report for the application for a research licence to conduct research on water quality, aquatic plants, habitat population and features, hydrology, and field survey in the Kivalliq near Baker Lake.

NIRB has acreened 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 Joe Ahmad, Executive Director at (867) 983-2593 if you have any questions about the Screening Report.

Yours truly,

Larry Pokok Aknavigak, Chairperson

Nunavut Impact Review Board

P.O.Box 2379

Cambridge Bay, NT

XOE OCO

Tel: (867) 983-2593 Fax: (867) 983-2574

C.c. NWT Resources, Wildlife and Economic Development

Department of Fisheries and Oceans

Kivalliq Inuit Association

Nunavut Water Board

Prince of Wales Northern Heritage Center

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Fax #:				-
From:		Joe Ahmad Executive Director e-mail: jahmad@polarnet.ca		Jeannie Ehaloak Executive Secretary jeanniee@polarnet.ca
	$\checkmark$	Gladys Joudrey Environmental Assess. Officer e-mail: gladys@polarnet.ca		Jorgen Komak Environmental Technologist jorgank@polarnet.ca
		Alexandra Thomson Senior Researcher/Trainer e-mail: alext@polarnet.ca		Rey Chaudhary Environmental Assess. Officer rchaudha@polarnet.ca
		Millie Evalik Finance/Administrative Officer e-mail: evikhoak@polarnet.ca		Josie Tucktoo-Lacasse Interpreter/Translator josiet@polarnet.ca
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## NUNAVUT IMPACT REVIEW BOARD SCREENING FORM

1. General File Information on Screening		
NIRB #: 991N181 Authorizing Agency #(s): NPI  permit or licence #  NPI: #591		
Project Title: Nater Quality, Aquatic Plants, Habitat Population, Features		
Project Title: Nater Quality, Aquatic Plants, Habitat Population, Features  Proponent: Chaig Goodings.  Company Applicant		
Proponent's Address: Nunavut Environmental Ltd.		
P.O. Box 188		
Rankin Inlet, NT. XOC 0GO.		
Contractor:		
Company / persons doing the work if different from the proponent		
address and contact numbers		
Proposed Starting Date of Activity: May 15/99  (yyyy-mm-dd)		
EA Starting Date: May . 26/99		
Date application accepted (yyyy-mm-dd)  Date Application Referred for Comments: May 29/99  (yyyy-mm-dd)		
Deadline for Comments: Apr. 28/99  (yyyy-mm-dd)		
NIRB's EA Indication: 12.4.4 ( )		
Date of Indication: (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 NRL RWED, Other:		
Authorizing Agency Contact Person: Pan Coffin   galut.  (office where project file is located, contact person, number)		
Land Status: Inuit Owned _ Crown _ Commissioner's _ Marine Areas		
Type of Application: Research Permit  (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:  (e.g. water licence, land use permit, quarry permit, lease, reserve)		
Present Authorizations (active): Conduse permit (to 2003); Commercial Rose II (tile number)		
Previous Authorizations (inactive/expired):		
(min-1)		
3. Project Location		
3. Project Location  Kivalliq X Kitikmeot Baffin		
Kivalliq X Kitikmeot Baffin  Land Use Planning Region: Kivallic		
Kivalliq K Kitikmeot Baffin  Land Use Planning Region: Kīvallig  (e.g. West Kitikmeot, North Baffin, South Baffin, Kivallig)  Geographic Place Name: Portage Lake, Tehek Lake, Inagguagyualik Lake		
Kitikmeot Baffin  Land Use Planning Region: Kīvallig		
Kitikmeot Baffin  Land Use Planning Region: Kīvallig  Geographic Place Name: Portage Lake Tehek Lake, Inaggugayualik Lake (nearest place name or geographic feature)  Local/Traditional Name:  National Topographic Sheet (NTS) Number: bbH/1 5bE/4 Scale: 1; 150,000  Latitude/Laceitude/Laceitude/Laceitude/Laceide/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Laceitude/Lacei		
Kitikmeot Baffin  Land Use Planning Region: Kīvalliq  Geographic Place Name: Portage Lake Tehek Lake, Inaggugayualik Lake  (nearest place name or geographic feature)  Local/Traditional Name:  National Topographic Sheet (NTS) Number: bbH/1 5bE/4 Scale: 1; 150,000  Latitude/Longitude: bs03'9605'-6502'96'10'-65'00', 95'05'-65'04', 96'05'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00'-65'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'00', 96'		
Kitikmeot Baffin  Land Use Planning Region: Kitikmeot Kivalliq  Geographic Place Name: Portage Lake Tehek Lake, Inaggugayualik Lake (nearest place name or geographic feature)  Local/Traditional Name:  National Topographic Sheet (NTS) Number: bbH/1 5bE/4 Scale: 1; 150,000  Latitude/Longitude: bs03'9605'-b503'96'00'-b500',95'05'-b5'04',96'05'-b5'00',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',96'00'-b4'20',9		

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

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

If yes, what additional procedures/contacts are needed?

4. Project Description and Assessment		
Physical Work, Activity(ies): Research		
(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, 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		
Has been in contact with HTO from Paker lake.		
also Hamlet, CIAR and Varlous Elders from		
Roler late:		
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		

### NON-TECHNICAL PROJECT PROPOSAL SUMMARY

Applicant: Nunavut Environmental Ltd.

### Background:

Cumberland Resources Ltd. has conducted mine exploration activities at the Meadowbank Property since 1995. The property is located approximately 70 km north of Baker Lake. Previous research has focused on the aquatic environment. The objective of the 1999 program is to gather additional information on existing environmental conditions in support of future environmental assessment and long-term monitoring for the mine. The mine is currently scheduled to begin operation in 2002.

### Proposed Research Activities:

The following activities are proposed for the 1999 research program:

- Collect additional information on lake water and sediment quality and aquatic plants
  and animals, including fish populations. Field work will be scheduled to gather
  seasonal data (e.g., early spring and fall) to improve existing knowledge. Sampling
  sites will be located in four lakes around the mine area, and a comparison lake in the
  Meadowbank River drainage. All of these sites have been previously sampled.
- Collect new information on site hydrology, including snow levels, lake ice/water levels, runoff, and discharges. Monitoring will begin in early spring to capture melt conditions, and will continue to late summer. Sampling sites will be located in four lakes around the mine area.
- Collect new information on plant, wildlife, and habitat features around the mine.
   Plant surveys will be conducted in mid-summer, and wildlife field work will be scheduled to gather seasonal data. Work will focus on the local study area, but some information will also be collected along an existing winter road corridor (Baker Lake to the Meadowbank Property), and in Chesterfield Inlet.
- Conduct a field survey (aerial and foot) of archaeological resources and traditional
  use areas. The survey will document sites of significance near the mine area and
  along an existing winter road corridor (Baker Lake to Meadowbank). No excavation
  is proposed as part of this study.

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Craig Goodings

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שלבילרסירנישו חרת סיולישים הרסילאססלי בבריחרנים

محمر المرادد عما المحال دراباله

### ACQ504

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Apr 01 99 09:47a Craig Goodings

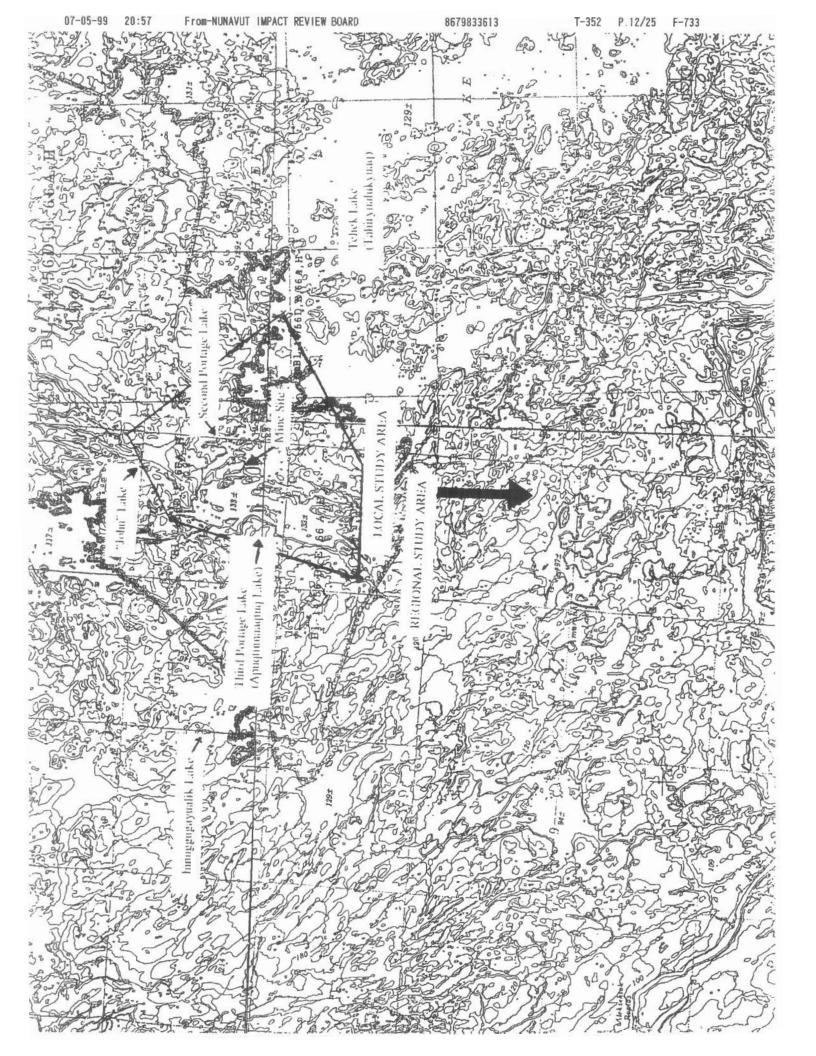
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- ווחביצים לפישורים פנילבהשלים פיום אלשיצים (יווים שונם אלשיצים ויווים ما المارك ما المارك ما المارك ما المارك ما المارك و المارك و المارك ما المارك و المارك ما المارك و ا "שטלילים שלי חחקיכם ביים חיים וציביר שת אשלי שאקים מיים ליי ינוספירושיים שינים שלינספים של תשיים של מישחרים פיינים של היישורים שייינים של היינים ש 6954400 19U-206.



6. Description of the Environment
Description of Biophysical Environment
This area has been identified as an important
denning area for Arctic fox and Wolf.
Description of Socio-Economic and Cultural Environment
This area around Amer Lake is used in winter
and spring by residents of Baker Lake for
hunting, fishing and trappers.
There is comping, tishing, hunting and caching
Sites around parts of second Postage Lake,
Third Pistage Lake and Truequagualik
late, and other areas along existing winter
sand confidor.

7. NIRB's Consultation Process		
Date application referred for		-mm-dd)
Deadline for comments:	Hobert 38	-mm-dd)
Distribution List:  NUNAVUT: NTI QIA Kivalliq I.A. Kitikmeot I.A. NPC	Contact Person:	Date comments received:
NWMB NWMB RWO Inuit Heritage Trust Community(s) Rolls Hamlet HTO Other?	Retrecca mile	April 15, 1999.
DIAND DFO DOE Heritage Can. Natural Resources Other? (eg. Health		
DOT, DND) CCS  GNWT:  DRWED  Transport  MACA  PWNHC  Other? (eg. Health, Soc. Serv., ECE) SOCM	Hen Brant Charles Arnold	April 15,1999
TRANSBOUNDARY PARTIES OTHER PARTIES		

(October 1998 version) Nunavut Impact Review Board Screening Form

### Identification of Project Activities and Environmental Effects Identify all activities of the project under screening and their potential adverse environmental effects. Project Activities Project Effects (V check all the items appropriate to this project) (V check all the items appropriate to this project) Vaccess road Directly-related Socio-Economic & Cultural V winter Wer Good \_\_ construction impact to hunting / trapping / fishing \_\_ abandonment/removal \_\_ impact on: \_\_ women \_ modification e.g., widening V automobile, aircraft or vessel movement men \_\_ children blasting elders burning \_\_ burying impact to traditional use or traditional use area \_channelling \_\_ impact to outfitters construction impact on recreational use building impact on family structure \_\_ shed/warehouse impact to community health landing strip change in community economics \_\_cut and fill change in community housing or removal of vegetation infrastructure \_\_ dams and impoundments \_\_ construction impact to industry \_\_ abandonment/removal change in regional transportation \_\_ modification Limpact to archaeological or cultural landmarks ditch construction impact on beauty of the landscape drainage alteration 14 \_\_ other, explain\_ drilling other than geoscientific ✓ ecological surveys Biophysical Environment Effects excavation deposit into surface or ground water \_\_explosive storage deposit to marine environment \_\_ fuel storage 17. \_\_ change in surface or ground water flow \_\_ garbage 18. \_\_ change in water temperature disposal of hazardous waste \_ disposal of sewage or grey water 19. \_\_ change in drainage pattern disposal of solid waste change in air quality geoscientific sampling 21. \_\_ change in air flow \_ trenching 22 \_\_ micro-climate change \_\_ diamond drill 23. \_ ice fog \_ borehole core sampling 24. Change in ambient noise level bulk soil sampling 25 \_\_ deposit onto ground surface quarry 26. \_\_\_change in slope stability hydrological testing 27. \_\_ change in soil structure \_\_\_ river/stream/lake crossing/bridging 28. \_\_ alteration of permafrost regime \_\_ site restoration 29. \_\_destabilization/erosion \_\_ fertilization \_\_grubbing \_\_planting/seeding 30 \_ soil compaction 31. \_\_ change in access to renewable resources scarification depletion of non-renewable resource \_\_ spraying ✓ removal of rare/endangered plant species Ctor Somfline \_ recontouring 34. \_\_ introduction of species ✓ soil testing 35. \_\_ toxin/heavy metal accumulation \_\_ topsoil, overburden or soil \_\_ removal of rare/endangered wildlife species \_\_ fill change in wildlife health \_\_\_ disposal impact to large mammals \_\_ removal impact to small mammals storage \_\_tunnelling/underground \_\_other, explain \_\_\_\_\_CRE\_\_INC\_\_ 40. Limpact to fish! fish sampling) 41. \_\_ impact to birds 42. \_\_ impact to other wildlife possibility for accidents or malfunctions. Describe. impact in a calving, nesting, staging or spawning area removal of wildlife buffer zone 45. \_\_ change in wildlife habitat/ecosystem effects of environment on project (e.g., flooding). 46. \_\_ other, explain Describe.

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

Environmental Effect	Describe
#12	Estery of the or charactering of the contract
#1/0	Percond team will be putting instruments to the months water and to deep ited or letter and deby's may be deposited or letter
424	movine lite.
#40	white gota is pere taken hayer
#34	Sanding some blant species:

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	Effects from Other Resource Uses
(√check all the items appropriate to this project)	( \sqrt check all the items appropriate to the scope of this
	project)
harvesting	1 7
marine mammals	Directly-related Socio-Economic & Cultural
Vland mammals	Effects:
fur bearers	1impact to hunting / trapping / fishing
_ birds	2impact on:women
shellfish	men
plants	children
berries	elders
fish	<ol><li>impact to traditional use or traditional use area</li></ol>
Umining	<ol> <li>impact to outfitters</li> </ol>
∠exploration	<ol><li>impact on recreational use</li></ol>
_ open pits	<ol><li>impact on family structure</li></ol>
underground	<ol> <li>impact to community health</li> </ol>
off-shore	<ol> <li>change in community economics</li> </ol>
mineral processing	<ol><li>change in community housing or infrastructure</li></ol>
industry (type)	10 impact to industry
Vquarries	<ol> <li> change in regional transportation</li> </ol>
carving stone	<ol><li>impact to archaeological or cultural landmarks</li></ol>
aggregate	<ol><li>impact on beauty of the landscape</li></ol>
transportation/communications	14 other, explain
airport / landing strip	
vroads/access routes	Biophysical Environment Effects
shipping	<ol><li>deposit into surface or ground water</li></ol>
channels/canal	<ol><li>deposit to marine environment:</li></ol>
telephone lines, satellite dishes, cables	<ol><li>17 change in surface or ground water flow</li></ol>
beacons	<ol><li>18 change in water temperature</li></ol>
waste disposal (solid, liquid or gas?)	<ol><li>19 change in drainage pattern</li></ol>
energy project	20 change in air quality
hydro	21 change in air flow
pipeline	22 micro-climate change
transmission line	23ice fog
other water licenses, permits, leases	24change in ambient noise level
Vlands	<ol> <li>deposit onto ground surface</li> </ol>
Inuit owned	26 change in slope stability
-surface rights	27change in soil structure
-sub-surface rights	28alteration of permafrost regime
∠Crown	29destabilization/erosion
Commissioner's	30soil compaction
Marine Areas	31 change in access to renewable resources
other private lands held under tenure	32. depletion of non-renewable resource
heritage sites or archaeological sites	33 removal of rare/endangered plant species
recreation (eg. cabins, tent frames)	34introduction of species 35toxin/heavy metal accumulation
tourism municipal (construction) commercial built structures (FOKM away)	36 removal of rare/endangered wildlife species
Summercial (A	37change in wildlife health
- built emichines ( tokin away)	
infrastructure	38impact to large mammals 39impact to small mammals
	40 impact to fish
agriculture	41impact to birds
forestry other, explain	
outer, expiratin	<ol> <li>impact to other wildlife</li> <li>impact in a calving, nesting, staging or spawning</li> </ol>
	area
	44 removal of wildlife buffer zone
	45change in wildlife habitat/ecosystem
	46other
	ToOuter

10. Cumulative Envir Based on a comparison of	onmental Effects effects identified in #8 and #9.
Matching Number(s)	Description of Cumulative Environmental Effects
Will the project make	large demands on non-renewable energy sources?
developments (other similar extraction, the building of	arage further developments within the current project or other are projects, energy development, generation, petroleum development and additional roads)? Potentially Chult - year is reaction cords of mireral development.
.3	urage a "boom-bust" economy over an economy of permanence?
fishers?	urage more wildlife harvesting on account of better access for hunters and
<u>VO</u> Will the project have	an effect on the water quality of the watershed?
10 Will the project have	a significant effect on existing land uses?
11. Mitigation Measures For each environmental ef measures.	fect identified in #8, #9 and #10, describe the required mitigation
Number(s) (as identified in #8, #9 & #10)	Description of Mitigation Measures
	See Screening terms and conditions.
ļ.	

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.	
	Policina in the second	
	Number(s)	
13.	Likelihood of Occurrence	
Of the	e significant, residual adverse environmental effects identified in #12, are any likely to occur?	
Of the	Yes No	
	Number(s)	
L		
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	
1	maps	
	photos	
	reports (scientific, economic, social, or anthropological, archival or historical information)	
1	Nunavut Environmental Database (NED)	
	personal communications	
1	Project Registry (NPC)	
	previous similar projects	
1	service organizations	
l	media monitoring	
	experts other	
	For information sources identified above, provide contact person and/or information	
location	on (for future follow-up):	

	Staff Recommendations		
Staff I	Staff Recommendations: (include rationale)		
	Starled howe minimal environmental		
	impact.		
	FM. 1 T. 1		
Prepa	Prepared By: While Folks Date: April 26, 1999		
L			
16.	NIRB'S Principles		
li .			
	The project has significant adverse effects on the ecosystem, wildlife habitat or Inuit harvesting activities.		
	harvesting activities.		
	harvesting activities.  The project may have significant adverse socio-economic effects on northerners.		
	harvesting activities.  The project may have significant adverse socio-economic effects on northerners.  The project will cause significant public concern.		
	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.		
	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.		

# 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.

8679833613 T-352 P.21/25 F-733 8679832594;# 7/ 7

SENT BY:4038732602 ; 5- 7-99 ; 12:17 ; YELLOWKNIFE INN-

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:		

, Authoriza	tion		
pproved By:	- Lh	Date: 99-05-07	
	(NINB Decision Makes)	(yyyy-mm-dis)	

	ow-up / Manitaring
linister's D	etermination
ction?	Minister agreed with NIRB's indication.
Action?	Minister varied NIRB's indication.
\ction?	Minister rejected NIRB's indication
f applicable	follow-up/monitoring program required? If yes, give details.

APR-15-1999 THU 01:37 PM

FAX NO.

P. 03

, MAR-29-99 17:02 From:NIRB

8679832594

T-022 P.05/13 Job-698

### COMMENT FORM FOR NIKB 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:

Proponent:Craig Goodings Location:Baker Lake, Baffin, NIRB#:99YN181 Comments Due By:Friday, April 28, 1999  Indicate your concerns about the project proposal below: ( ) no concerns	& Features, Hrydrology, and Fig.	ality, Aquatic Plants, Habitat Population eld Survey
Indicate your concerns about the project proposal below:  () no concerns () Inuit harvesting activities () community involvement and consultation () terrain () local development in the area () wildlife and their habitat () marine manumals and their habitat () birds and their habitat () fish and their habitat () heritage resources in area () traditional uses of land  (Other:  Please describe the concerns indicated above: (alway growd) May - June  Do you have any suggestions or recommendations for this application?  Forucle a copy of their street, where the project proposal? YES (/) NO ()  Any additional comments?	Location: Baker Lake, Baffin	NIRB#: 99VN181
Indicate your concerns about the project proposal below:  () no concerns () Inuit harvesting activities () water quality () community involvement and consultation () terrain () local development in the area () air quality () wildlife and their habitat () marine manurals and their habitat () hirds and their habitat () fish and their habitat () fish and their habitat () heritage resources in area () traditional uses of land  (Other:  Please describe the concerns indicated above: (alons, growds May - June)  Do you have any suggestions or recommendations for this application?  Provide a copy of their stricty results  Do you support the project proposal? YES (/) NO ()  Any additional comments?	Comments Due By: Friday, April 28,	1999
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() water quality () community involvement and consultation () terrain () local development in the area () wildlife and their habitat () human health issues () marine manumals and their habitat () birds and their habitat () fish and their habitat () heritage resources in area () traditional uses of land (Other:  Please describe the concerns indicated above:  (aluns, growds May - June,  Do you have any suggestions or recommendations for this application?  Provide a copy of their study results  Do you support the project proposal? YES () NO ()  Any additional comments?		
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	Do you support the project proposal? YE	
Numo of porgon sammenting: Rebecca Mike of Agalust Position: ASSIST Director Organisation: New MB		
Name of person panimenting: Leberca Mike of Valuet  Position: Assist Director Organisation: New M. B.  Signature: Value Date: 12 04:39		
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	Signature: VIALL	Teatisation: NW MID.

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APR 09 199 09:45 FR MARINE PROGRAMS

519 383 1989 TO 918679832574

Distribution List for NIRB File #: 99YN181 Project Name: Research - Water Quality, Aquatic Plants, Habitat Population & Features, Hrydrology, and Field Survey - Craig Goodings

Kivalliq List # of Pages \_

	Contact Name		Phone #:	Fax #:
Nunavut: NTI Kivalliq LA NPC NWB NWMB Keewatin Wild Federation	Environmental Manager Chief Land Administrator Executive Director Executive Director Executive Director Idlife Chairperson		983-2517 867-645-2810 613-238-1155 867-360-6338 867-979-6962 867-857-2695	983-2723 867-645-3855 613-238-5724 867-360-6369 867-979-7785 867-857-2990
Inuit Heritage Trust			867-979-0731	867-979-0269
Federal:				
DIAND - Nun DIAND - Kiva	Arctic Regions Mgr. Er	ivironmental	867-979-4405 867-645-2831 867-979-6274 867-920-6050	867-979-6445 867-645-2592 867-979-8039 867-873-8185
CCG	Ken Br	on Branch ant	519-383-1862	519-383-1989
Territorial G RWED - HQ RWED - Kiva	Kelly R	obertson vine	867-920-8069 867-857-2828	867-873-0114 867-857-2986
MACA Transportation PWNHC		Maley rown	867-645-5042 867-645-5087 867-920-8084	867-645-2321 867-645-3357 867-873-0205
Other: BQCMB	Chairpe	rson	867-	867-873-0293

### Communities:

Baker Lake: XOC 0A0

Hamlet HTO

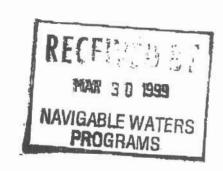
SAO Chairperson 867-793-2874 867-793-2520

867-793-2509 867-793-2034

Translated Project Summary to follow.

Navigable Waters Protection Sarnia, Ontario

NO INTEREST Date: March 30/99





From-NUNAVUT IMPACT REVIEW BOARD

201 23

April 8, 1999

Peter Ernerk, Deputy Minister
Department of Culture, Language, Elders and Youth
Government of Nunavut
Bag 800
Igaluit NT X0A 0H0

Re: NRI Research Application 99YN181; Research on water quality, aquatic plants, habitat population and features, hydrology and archaeological field survey (Nunavut Environmental Ltd, Rankin Inlet) Due Date: April 28, 1999

Dear Mr. Ernerk:

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 research license application as the proponent's proposed activities do not constitute a threat to known archaeological resources.

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.

Regards,

Original Signed By Charles D. Arnold

Charles D. Arnold, Director Culture and Heritage Division

Prince of Wales Northern Heritage Centre

Jaida Edwards, Nunavut Impact Review Board



# ARCHAEOLOGICAL RESOURCES: TERMS AND CONDITIONS BACKGROUND

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 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.
- 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.
  - The permittee shall contact the Department of Culture, Language, Elders and Youth (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, liquid.
  - 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.
  - 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.
  - 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.