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SCREENING DECISION

Date: June 10, 1998

Thomas Kudloo
Chairperson
Nunavut Water Board

Dear Mr. Kudloo:

**RE: Screening Decision of the Nunavut Impact Review Board (NIRB) on Application:
NIRB 98W03N078 NWB2ATU
Cumberland Resources- Mineral Exploration at Atutik Lake**

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 is referenced in the screening section 12.4.4 (a) 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:

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

Terms and Conditions:

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

Drill Sites

1. The Permittee shall not conduct any land based drilling within thirty (30) metres of the normal high water mark of a water body.
2. The Permittee shall conduct any the lake-based winter drilling, in accordance with *the Interim Guidelines for On-Ice drilling*. A copy of these Guidelines can be obtained from Mr. Steve Harbicht, Head of Assessment and Monitoring, Environment Canada in Yellowknife at (867) 669-4733.
3. The Permittee shall ensure that all drill cuttings are removed from ice surfaces.
4. The Permittee shall not use drilling muds or additives in connection with drill holes unless they are recirculated or contained such that they do not enter the water, or are certified to be non-toxic.
5. The Permittee shall ensure that the release of total suspended solids in the receiving environment shall be in compliance with *Guidelines for Total Suspended Solids* contained in the *Canadian Council of Ministers for the Environment's (CCME) Canadian Water Quality Guidelines, Chapter 3 - Freshwater Aquatic Life* (i.e. 10mg/L for lakes with background level under 100mg/L, or 10% for those above 100mg/L).
6. The Permittee shall ensure that any drill cuttings and waste water that cannot be re-circulated be disposed of in a properly constructed sump or an appropriate natural depression that does not drain into a waterbody.

7. The Permittee shall ensure that the sump/depression capacity be sufficient to accommodate the volume of waste water and any fines that are produced so that there will be no additional impacts.
8. The Permittee shall not locate any sump within thirty (30) metres of the normal high water mark of any water body.
9. The Permittee shall ensure that disturbance of vegetation from deposit of drill fluids/cuttings is restricted to the area of the sump and the ground prepared for revegetation upon abandonment.
10. The Permittee shall, where flowing water from bore holes is encountered, plug the bore hole in such a manner as to permanently prevent any further outflow of water. If an artesian occurrence shall be reported to the Nunavut Water Board and Land Use Inspector within 48 hours.

Water

11. The Permittee shall ensure that the volume of fresh water for domestic purposes does not exceed 100 cubic metres per day.
12. The Permittee shall ensure that all water intake hoses are equipped with a screen with an appropriate mesh size to ensure that there is no entrapment of fish.

Fuel and Chemical Storage

13. The Permittee shall ensure that fuel storage containers are not located within thirty (30) metres of the ordinary high water mark of any body of water.
14. 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.
15. The Permittee shall take all reasonable precautions to prevent the possibility of migration of spilled petroleum fuel or chemicals over the ground surface.
16. The Permittee shall have one extra fuel storage container on site equal to, or greater than, the size of the largest fuel container.
17. The Permittee shall examine all fuel and chemical storage containers for leaks. All leaks should be prepared immediately.
18. The Permittee shall have an emergency response and spill contingency plans in place prior to the commencement of the operation. In developing these plans the Permittee should follow the *NWT Spill Contingency Planning and Reporting Regulations* and the *Guidelines for the Management of Hazardous Wastes*. These documents are available from the Department of Resources Wildlife and Economic Development, GNWT at (867) 920-8069.
19. The Permittee shall immediately report all spills of petroleum and hazardous chemicals in accordance the Government of the NWT Spill Report to the twenty four (24) hour spill report line at (867) 920-8130 to NWB.

Waste Disposal

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

21. Any areas designated for waste disposal shall not be located within thirty (30) metres of the ordinary high water mark of any body of water, unless otherwise authorized.
22. The Permittee shall construct a sump to contain all greywater discharged and shall ensure drainage is away from any waterbody.
23. The Permittee shall incinerate all combustible and food wastes to eliminate potential for wildlife problems created by the attraction of wildlife to garbage.
24. The Permittee shall ensure that all non-combustible wastes generated through the course of the operation are backhauled and disposed of in an approved dumpsite.
25. The Permittee shall deposit all scrap metal, discarded machinery and parts, barrels and kegs, at an approved disposal site.
26. The Permittee shall not bury any metal wastes.
27. The Permittee shall dispose of all toxic or persistent substance in a manner approved by the NWB and the land use inspector.

Wildlife

28. The Permittee shall ensure that there is no damage to wildlife habitat in conducting this operation.
29. The Permittee shall not locate any operation so as to block or cause substantial diversion to migration of caribou.
30. The Permittee shall cease activities that may interfere with migration or calving, such as airborne geophysics surveys, movement of equipment or drilling activities until the caribou and their calves have vacated the area.
31. The Permittee shall ensure that pilots adhere to recommended flight altitudes of greater than 300 m above ground level as to not disturb wildlife. In the event that caribou or muskox cows and calves are present all overflights by aircraft should be suspended. Raptor nesting sites and concentrations of nesting or molting waterfowl should be avoided by aircraft at all times.
32. 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.
33. The harmful alteration, disruption or destruction of fish habitat is prohibited under Section 35 of the *Fisheries Act*. No construction or disturbance of any stream/lake bed or banks of any definable watercourse is permitted unless authorized by DFO.
34. The Permittee shall not obstruct the movement of fish while conducting the land use operation.
35. The Permittee shall ensure that the drill sites avoid known environmentally sensitive areas (denning, nesting etc.) by a minimum of 250 metres.

Environmental

36. The Permittee shall ensure that the land use area is kept clean and tidy at all times.
37. The Permittee shall prepare the site in such a manner as to prevent damage to the ground surface.

38. 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.
39. The Permittee shall not use any equipment except of the type, size and number that is listed in the accepted application.
40. The Permittee shall not move any equipment or vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging.
41. The Permittee shall suspend overland travel of equipment or vehicles if rutting occurs.

Camp

42. The Permittee shall not erect camps or store material on the surface ice of lakes or streams.
43. The Permittee shall locate all camps and storage facilities on gravel, sand or other durable land.
44. The Permittee shall follow the *Camp Sanitation Regulations* made under the authority of the Public Act of the Northwest Territories.

Archaeological Sites

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

Reclamation

46. The Permittee shall remove all scrap metal, discarded machinery and parts, barrels and kegs, buildings and building material upon abandonment.
47. The Permittee shall undertake ongoing restoration for any land or improvements which are no longer required for the Permittee's operation on the land.
48. The Permittee shall cap all drill holes and cut off any drill casings that remain above ground to ground level upon abandonment of the operation.

Other Recommendations

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

Validity of Land Claims Agreement

Section 2.12.2

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

Dated June 10/98 at Cambridge Bay, NT


Larry Pokok Alkavigak, Chairperson

Attachment: NIRB Screening Form



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NUNAVUT | IMPACT REVIEW BOARD SCREENING FORM

1. General File Information on Screening	
NIRB #: <u>98603 N078</u> <small>(NIRBxxx/yyyy)</small>	Authorizing Agency #(s): <u>NWB-NWB2ATU</u> <small>Can be permit or licence numbers</small>
Project Title: <u>Exploration/Surveying - Meliadine East Project</u>	<u>Atulik Lake Area</u> <small>Title of project</small>
Proponent: <u>Janice Fingler</u>	<u></u> <small>Company/Applicant</small>
Proponent's Address: <u>Cumberland Resources Ltd., #906-595 Howe Street, Vancouver BC V6C 2T5</u>	<u></u> <small>Full Address</small>
Contractor: <u></u>	<u></u> <small>(e.g. company / persons doing the work, if different from the proponent)</small>
EA Starting Date: <u>14 May 1998</u>	<u></u> <small>Date application accepted (yyyy-mm-dd)</small>
Proposed Starting Date of Activity: <u></u>	<u></u> <small>(yyyy-mm-dd)</small>
Date Application Referred for Comments: <u>14 May 1998</u>	<u></u> <small>(yyyy-mm-dd)</small>
Deadline for Comments: <u>03 June 1998</u>	<u></u> <small>(yyyy-mm-dd)</small>
NIRB's EA Indication: <u>12.4.4 (a)</u>	<u></u> <small>(Article 12.4.4 Indication)</small>
Date of Indication: <u></u> <small>(-Due date)</small>	<u></u> <small>Date (yyyy-mm-dd)</small>
Project Cancelled: <u>Yes</u>	<u></u> <small>Date (yyyy-mm-dd)</small>
Reason: <u></u>	<u></u> <small>Explain reason for cancellation</small>
Comments: <u></u>	<u></u>

(January 1998 version) Nunavut Impact Review Board Screening Form

2. Authorizing Agencies

Authorizing Agency(ies): NTI, Kivalliq I.A., Kitikmeot I.A., BRIA, NWB, NWMB, DIAND, DFO, DOE, DRWED, Other _____

(circle one or more)

Land: Inuit Owned ☒ Crown _____ Commissioner's _____ Marine Areas _____

Type of Application: _____ water license _____
(e.g., water licence, land use permit, quarry 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): LUP # K197C098 _____
(file number)

Previous Authorizations (inactive/expired): _____
(file number)

Project File Location: NWB - Gjoa Haven, David Porter. _____
Office where project file is located, contact person and number

3. Project Location

Kivalliq ☒ _____ Kitikmeot _____ Baffin _____

Land Use Planning Region: _____
(e.g., West Kitikmeot, ...)

Geographic Place Name: Atutik Lake _____
(nearest place name or geographic feature)

Local Name: _____
(traditional name for location)

National Topographic Sheet (NTS) Number: _____ Scale: _____

Latitude / Longitude: 62° 56' N 92° 55' W _____
(degrees, minutes, seconds)

Drainage Region and Watershed: _____
(nearest creek, river or lake system)

Nearest Settlement: Rankin Inlet _____

Adjacent Settlement / Out-post camps: _____

Surrounding Land Status: _____
(e.g., Inuit Owned, Commissioner's, Crown)

Special Designation: _____
(Yes/No - e.g., heritage river, if yes, identify)

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: camp fuel cache, exploration/surveying.
(construction, camp, fuel cache, quarrying, harvesting, water works, installation, modification, operation, maintenance, scientific research)

Multiple Activities: ☐ Yes ☒ No

Project Category Code: Point Multiple Points Linear Area
(circle those that apply)

Phase of Project: exploration
(exploration, bulk sampling, development, operations, decommissioning, abandonment/restoration)

Project Description Summary:

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

See Attached Project Description

Alternatives Considered:

(list all alternatives to the project and/or components of the project to avoid unnecessary amendments, eg. give 2 alternatives to the location of an ice road and camp logistics)

PROJECT OVERVIEW

May 15, 1998

To: Distribution List via fax.

Re: NIRB file no. 98W03N078

Project: Surveying/prospecting/geological mapping
Atutik Lake Area

Proponent: Ms. Janice Fingler

Region: Kivalliq

Location: 62° 56' N 92° 55' W

Project Overview:

Cumberland Resources Ltd. has applied for a water use permit for the purposes of obtaining water while conducting surveying, prospecting and geological mapping in the Atutik Lake Area, near Rankin Inlet.

This will be a 'grassroots' level operation. Under their current LUP #KI97C098 there is a provision for drilling but they have chosen to conduct a brief program of surveying, prospecting and geological mapping only.

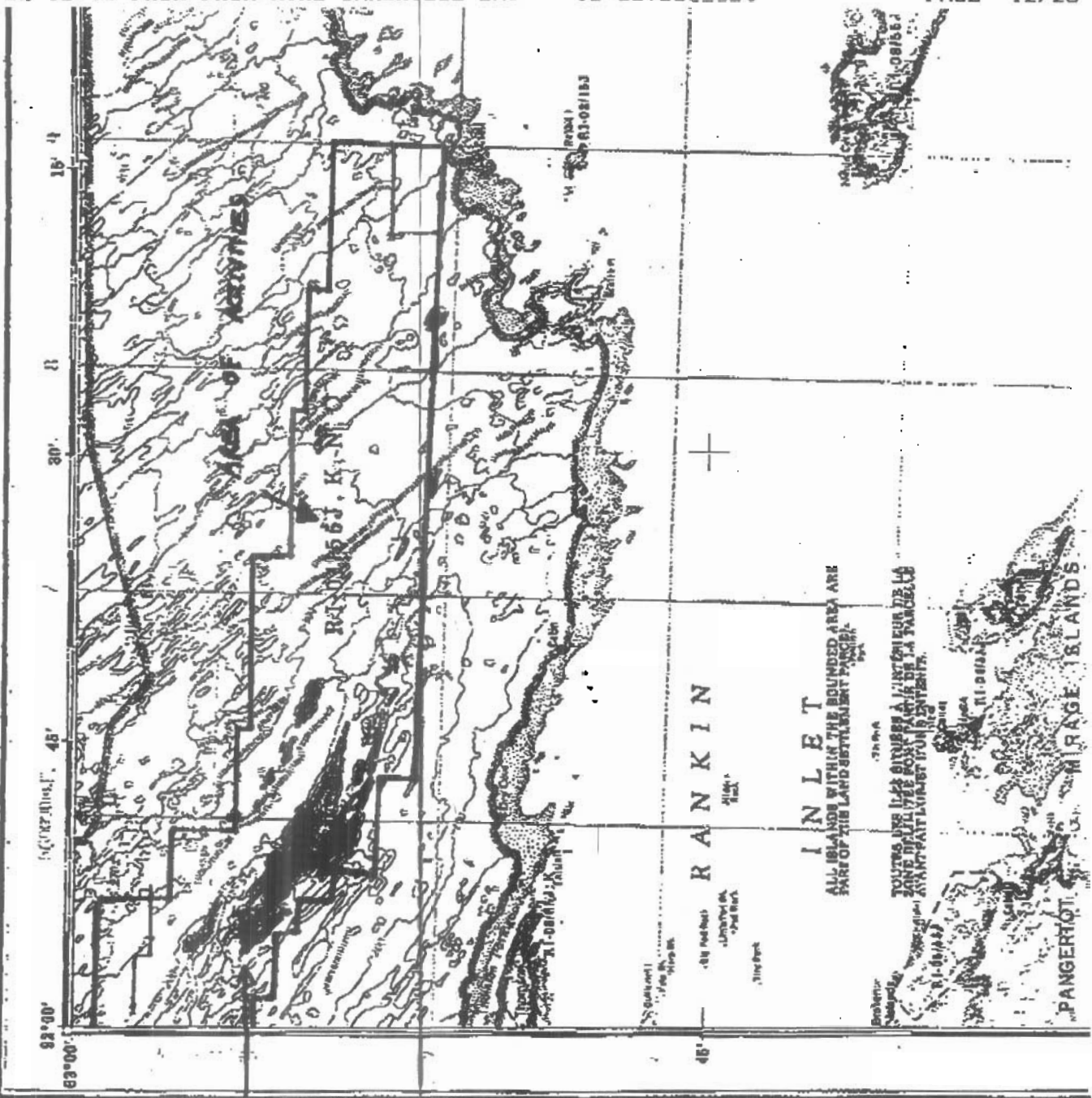
Water will be required for a camp of approximately 10 people over a six-week period. All activities will be conducted from this camp location. Water usage will be 200L/day x 42 days for a total of 8400 litres.

All grey water will be disposed of in an excavated sump.

Transportation will be via helicopter and by foot.

55 J

EDITION 3



CUMBERLAND RESOURCES

CAMP

LAT N 62° 56'

LONG W 92° 55'

5. The Proponent's Public Consultation Process

Description of Proponent's Public Consultation Process:

Company has made presentations at Nunavut Mining Symposium in Rankin Inlet and has been working in area for a number of years.

Did proponent make use of traditional knowledge? ☐ Yes ☐ No
(Please attach list of contact names and/or sources of TK)

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.

6. Description of the Environment

Description of Biophysical Environment:

Part of larger area which extends west/south is part of the tundra wintering range for the Kaministiquia caribou herd. Wolves are found in area in close association with caribou. Scattered steep cliffs throughout area are used by rough legged hawks, peregrine falcons and possibly gyrfalcons for nesting. Nesting areas used by peregrines and gyrfalcons are

Description of Socio-Economic and Cultural Environment:

The coastal area is used intensively for hunting and trapping by residents of Rankin, Chesterfield Inlet and Whale Cove. Several camps are located here and are occupied in spring, summer fall. Geese and ducks are hunted and eggs are collected in spring and summer. In winter the area is used regularly for trapping.

7. NIRB's Consultation Process

Date application referred for comments:

14 May 1998.

(yyyy-mm-dd)

Deadline for comments:

03 June 1998

(yyyy-mm-dd)

Distribution List:

Referral sent to:

Date comments received:

Contact Person

(yyyy-mm-dd)

NUNAVUT

☒ NTI☐ QIA☒ Kivalliq IA☐ Kitikmeot IA☒ NPC☒ NWB☒ NWMB☐ RWO/HTO☒ Inuit Heritage Trust☐ RLO☒ Community(s) Rankin Inlet☐ Hamlet☐ HTO☒ CLARC☐ Other?

FEDERAL:

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

GNWT

☒ DRWED☒ Transport☒ MACA☒ PNWNC☐ Other? (Health,
Soc. Serv., ECE,)TRANSBOUNDARY
PARTIES

OTHER PARTIES

BOCMB

Margaret Teast
Wade RomankoMay 29/98
June 10/98Mary Brown
Charles ArnoldMay 25/98
May 27/98

8. 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
 - ☐ construction
 - ☐ abandonment/removal
 - ☐ modification e.g., widening
 - ☒ automobile, aircraft or vessel movement *helicopter*
 - ☐ blasting
 - ☐ burning
 - ☐ burying
 - ☐ channelling
 - ☐ construction
 - ☐ building
 - ☐ shed/warehouse
 - ☐ landing strip
 - ☐ cut and fill
 - ☐ removal of vegetation
 - ☐ dams and impoundments
 - ☐ construction
 - ☐ abandonment/removal
 - ☐ modification
 - ☐ ditch construction
 - ☐ drainage alteration
 - ☐ drilling other than geoscientific
 - ☐ ecological surveys
 - ☐ excavation
 - ☐ explosive storage
 - ☒ fuel storage
 - ☐ garbage
 - ☐ disposal of hazardous waste
 - ☐ disposal of sewage or grey water
 - ☐ disposal of solid waste
 - ☒ geoscientific sampling
 - ☐ trenching
 - ☒ diamond drill
 - ☒ borehole core sampling
 - ☐ bulk soil sampling
 - ☐ quarry
 - ☐ hydrological testing
 - ☐ river/stream/lake crossing/bridging
 - ☐ site restoration
 - ☐ fertilization
 - ☐ grubbing
 - ☐ planting/seeding
 - ☐ scarification
 - ☐ spraying
 - ☐ recontouring
 - ☐ soil testing
 - ☐ topsoil, overburden or soil
 - ☐ fill
 - ☐ disposal
 - ☐ removal
 - ☐ storage
 - ☐ tunnelling/underground
 - ☐ other, explain _____
 - ☐ possibility for accidents or malfunctions.
- Describe _____
- _____
- 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 to hunting / trapping / fishing
2. ☐ impact on:
 - ☐ women
 - ☐ men
 - ☐ children
 - ☐ elders
3. ☐ impact to traditional use or traditional use area
4. ☐ impact to outfitters
5. ☐ impact on recreational use
6. ☐ impact on family structure
7. ☐ impact to community health
8. ☐ change in community economics
9. ☐ change in community housing or infrastructure
10. ☐ impact to industry
11. ☐ change in regional transportation
12. ☒ impact to archaeological or cultural landmarks
13. ☐ impact on beauty of the landscape
14. ☐ other, explain _____

Biophysical Environment Effects

15. ☐ deposit into surface or ground water
16. ☐ deposit to marine environment
17. ☐ change in surface or ground water flow
18. ☐ change in water temperature
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 *sumps (grey water / drift cuttings)*
26. ☐ change in slope stability
27. ☐ change in soil structure
28. ☐ alteration of permafrost regime
29. ☐ destabilization/erosion
30. ☐ soil compaction
31. ☐ change in access to renewable resources
32. ☐ depletion of non-renewable resource
33. ☐ removal of rare/endangered plant species
34. ☐ introduction of species
35. ☐ toxin/heavy metal accumulation
36. ☐ removal of rare/endangered wildlife species
37. ☐ change in wildlife health
38. ☒ impact to large mammals
39. ☒ impact to small mammals
40. ☒ impact to fish
41. ☒ impact to birds
42. ☐ impact to other wildlife
43. ☐ impact in a calving, nesting, staging or spawning area
44. ☐ removal of wildlife buffer zone
45. ☐ change in wildlife habitat/ecosystem
46. ☐ other, explain _____

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 Research

Effects from Other Resource Uses

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

Directly-related Socio-Economic & Cultural Effects:

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

Biophysical Environment Effects

15. ☐ deposit into surface or ground water
16. ☐ deposit to marine environment
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34. ☐ introduction of species
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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 _____

10. Cumulative Environmental Effects

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

Matching Number(s)	Description of Cumulative Environmental Effects
	Large # of exploration activities occurring in area around Pantin Inlet. Uncertainty over their effect to the wildlife and other ecosystemic factors.

☒ Will the project make large demands on non-renewable energy sources?☐ Will the project encourage further developments within the current project or other developments (other similar projects, energy development, generation, petroleum development and extraction, the building of additional roads)? possibly☒ Will the project encourage a "boom-bust" economy over an economy of permanence?☒ Will the project encourage more wildlife harvesting on account of better access for hunters and fishers?☐ Will the project have an effect on the water quality of the watershed? possibly
drill cuttings & fuel spills.☒ 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 Terms and Conditions

12. Significance

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

☐ Yes

☒ No

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

Number(s)

_____	_____
_____	_____
_____	_____
_____	_____

13. Likelihood of Occurrence

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

☐ Yes

☒ No

Number(s)

_____	_____
_____	_____

14. Information Sources

What sources of information were used in the screening process?

☐ local knowledge

☐ traditional ecological knowledge

☒ land use plans (and draft land use plans)

☒ authorizing agencies' data

☒ departmental or agency opinions

☒ maps

☐ photos

☐ reports (scientific, economic, social, or anthropological, archival or historical information)

☐ Nunavut Environmental Database (NED)

☒ personal communications

☐ Project Registry (NPC)

☒ 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)

Company has an existing Land Use Permit from KIA.

Drilling and exploration is at the "grassroots" level.

Any significant adverse impacts should be mitigated with the terms and conditions in screening decision report.

Large number of exploration activities in area, I have a concern over cumulative effects of these activities.

Prepared By: JAIDA EDWARDS Date: June 04, 1998

Screener

(yyyy-mm-dd)

16. NIRB'S Principles☐ The project has significant adverse effects on the ecosystem, wildlife habitat or Inuit harvesting activities.☐ The project may have significant adverse socio-economic effects on northerners.☐ The project will cause significant public concern.☐ The project involves technological innovations for which the effects are unknown.☒ The project does not have significant effects or concerns.**17. Indication to the Minister (12.4.4)**

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

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

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18. Terms and Conditions

If the determination is 12.4.4 a), NTRB's terms and conditions include:

SEE SCREENING DECISION REPORT
TERMS AND CONDITIONS

19. Authorization

Approved By:

(NIR) Designation: _____

Daves

98-06-10

5555-100-000

20. Follow-up / Monitoring

Minister's Determination

Minister agreed with NDRB's indication.

Action?

Minister varied NTRB's indication.

Action?

Minister rejected NIRE's indication

Action?

If applicable,

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

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

Has screening report information been forwarded to NPC and NWB, for addition to their Project Registry?

Fisheries and Oceans
CanadaPêches et Océans
CanadaBox 358
Iqaluit, N.T.
X0A 0H0Ph: (867) 979-8007
Fax: (867) 979-8038

May 29, 1998

Jaida Edwards
Environmental Assessment Screener
Nunavut Impact Review Board
P.O. Box 2379
Cambridge Bay, NT
X0E 0C0Re: Atulik Lake Project,
NIRB: 98W03N078
NWB: NWB2ATU
Letter of Advice

On behalf of the Department of Fisheries and Oceans (DFO) I have reviewed the information submitted with the above application. DFO's assessment takes into consideration fish and fish habitat related concerns only.

On the basis of the information provided, I have concluded that the potential negative environmental effects on fish or fish habitat are likely to be insignificant. If the project is conducted as described in the application, and under standard land use conditions, DFO has no concerns with the project proceeding with the following recommendations:

1. DFO recommends that all surps, wastes, sewage containment's and fuel caches be located a minimum of 30 metres from the normal high water mark of any water body, and be sufficiently bermed or otherwise contained to ensure that these substances do not enter a waterway.
2. All spills of oil, fuel, or other deleterious materials should be reported immediately to the 24 Hour Spill Line at (867) 920-8130.
3. The permittee should not erect camps or store materials on the surface ice of any water body.

DFO should be notified of any changes in plans or operating conditions associated with this land use activity which may adversely affect fish or fish habitat.

Please note that none of the foregoing should be taken as authorization of the undertaking in accordance with the Fisheries Act or any other applicable legislation.

If you have any questions, concerns or comments with respect to the above, please contact me at the number above.

Regards,

2

Margaret Keast
Habitat Management Biologist, Nunavut Area

cc. Gary Weber (Area Manager, DFO Nunavut Area)
cc. David Porter (Licence Administrator, Nunavut Water Board)



Northwest
Territories Municipal and Community Affairs
Keewatin Region

File No.: 24 315 100

May 22, 1998

Nunavut Impact Review Board
PO Box 2379
Cambridge Bay, NT

Dear Sir:

Re: Surveying/prospecting/geological mapping - Atutik Lake Area
NIRB: #98W03N078

In response to your referral on the above-noted project, please be advised that the projects has been reviewed from a Community Planning perspective and I am prepared to offer the following comment:

1. Our interests are unaffected.

Should you have and further questions or concerns, please feel free to contact the undersigned.

Yours truly,

Wayne F. Winter, MA
Community Planner
MACA, Kivalliq Region





Northwest
Territories Education, Culture and Employment

201 23

May 20, 1998

Jaida Edwards
Environmental Assessment Screener
Nunavut Impact Review Board
Box 2379
Cambridge Bay NT X0E 0C0

Fax: 867-983-2594
Due date: June 3, 1998



Re: NIRB 98W03N078; Water use permit for surveying, prospecting, and geological mapping in the Atulik Lake area (Cumberland Resources Ltd.)

Dear Ms. Edwards:

Pursuant to A.s. 33.5.12 of the Nunavut Land Claim Agreement, the Prince of Wales Northern Heritage Centre gives consent for approval of the above-cited land use application. Given our current knowledge of the archaeological record of the area in which this work is to occur, the proponent's proposed activities do not constitute a threat to known archaeological resources. Under A.s. 33.5.13, 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,

Charles D. Arnold, Director
Culture and Heritage Division

Prince of Wales Northern Heritage Centre



ARCHAEOLOGICAL RESOURCES: TERMS AND CONDITIONS BACKGROUND

- I. The archaeological record of the Inuit of the Nunavut Settlement Area 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 the Nunavut Settlement Area 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 the Nunavut Settlement Area 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 the Nunavut Settlement Area of archaeological, ethnographical or historical importance, interest or significance or a place where an archaeological specimen is found, and includes explorers' cairns. "Archaeological specimen" means an object or specimen found in an archaeological site of archaeological, ethnological or historical importance, interest or significance and includes explorers' documents.
- III. Any new Terms and Conditions raising issues found in ss. 10 and 16 of the Territorial Land Use Regulations should duplicate statutory sections, or be stricter, but not more lenient in terms of protection of archaeological resources.
- IV.
1. The permittee shall not operate any vehicle over a known or suspected archaeological site.
 2. The permittee shall not remove, disturb or displace any archaeological specimen or site.
 3. The permittee shall contact the Arctic Archaeologist at the Prince of Wales Northern Heritage Centre (867-873-7551) 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 Prince of Wales Northern Heritage Centre (PWNHC).
 5. The permittee shall follow the direction of the Prince of Wales Northern Heritage Centre and DIAND in restoring disturbed archaeological sites to an acceptable condition, and according to the respective jurisdictions and authorities of the PWNHC (Article 33, Nunavut Land Claim Agreement) and DIAND Land Administration Division (Territorial Land Use Regulations).
 6. The permittee shall provide information to the Prince of Wales Northern Heritage Centre 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.

ARCHAEOLOGICAL SITE RECORD

FIELD NUMBER:

SITE NAME:

PROJECT:

DESCRIBE LOCATION OF SITE:

TERRITORY: Northwest Territories

DISTRICT:

MAP REFERENCE:

JURISDICTION:

UTM:

LATITUDE:

LONGITUDE

ELEVATION:

SIZE:

CONDITION:

SITE TYPE CLASS:

- ☐ Prehistoric
- ☐ Indigenous historic
- ☐ Historic
- ☐ Natural
- ☐ Undetermined

SITE FEATURES:

CULTURE:

REPORTER'S NAME AND ADDRESS:

YEAR OBSERVED:

REMARKS/SKETCH/PHOTOGRAPHS:

Return to: Prince of Wales Northern Heritage Centre, Yellowknife, Northwest Territories X1A 2L9
Telephone: 867-873-7551; Fax: 867-873-0205



Environment Environnement
Canada Canada

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

June 10, 1998

Our File:

Jajda Edwards
Nunavut Water Board
Box 2379 Cambridge Bay

Dear Jajda Edwards:

Re: NWB Water Licence Application 98E03N078 - Cumberland Resources - Surveying
prospecting/geological mapping - Aitutik Lake Area, NT.

On behalf of the Environmental Protection Branch (EPB), Environment Canada I have reviewed the information submitted with the above application, and recommend the following conditions for inclusion in the water licence. This advice is provided pursuant to Section 12(3) of the *Canadian Environmental Assessment Act* (CEAA), and is based primarily on EPB's mandated responsibilities for the enforcement of the *Canadian Environmental Act* (CEPA) and Section 36 of the *Fisheries Act*. It is a requirement of Section 36 of the *Fisheries Act* that all effluent discharge into water frequented by fish be non-deleterious, commonly defined as non-toxic.

- The proponent shall ensure that any fuel or wastes associated with the proposed project do not enter waters frequented by fish. All sumps, spill basins, and fuel stores should be located a minimum of thirty (30) metres from the normal high water mark of, and such that they do not enter any water body.
- The proponent shall not deposit nor permit the deposit of slash, debris or sediment into any water body. These materials shall be disposed of above the high water mark in such a fashion that they do not enter the water.
- EPB should be advised of any material changes to plans or operating conditions associated with this land use activity.

Please do not hesitate to contact me at (867) 669-4736 with any questions or comments regarding the foregoing.

Yours truly,

Wade Romanko
Aquatic Environmental Technician

cc: Steve Harbicht (Head, Assessment & Monitoring, EPB)
Laura Johnston (Mgr. NWT Division)

Canada

