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August 10, 2000

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

**Re: Amendment to North Hope Bay Water Permit**  
**NIRB: 00WA049                      NWB: NWB2HOP**

Enclosed is the completed NIRB Screening Decision Report on a water licence application for an amendment to the North Hope Bay water permit in the Kitikmeot.

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

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

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

Yours truly,

White Foxing

Gladys Joudrey  
Environmental Assessment Officer



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## SCREENING DECISION

**Date: August 10, 2000**

Thomas Kudloo  
Chairperson  
Nunavut Water Board

Dear Mr. Kudloo:

**RE: Screening Decision of the Nunavut Impact Review Board (NIRB) on Application:  
NIRB 00WA049      NWB NWB2HOP  
Amendment to North Hope Bay Water Permit – Hope Bay Joint Venture**

**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 movement of vehicles and equipment and the impact on wildlife;
- storage and disposal of chemicals, fuel, garbage, sewage, and gray water, and impact of these on the ecosystem;
- the movement of vehicles and equipment on terrain;
- clean up/restoration of the camp site upon abandonment;
- the cumulative effects from all the human usage activities that are occurring in the Hope Bay Belt area.

**Terms and Conditions:**

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

**Water**

1. The Permittee shall ensure that fresh water for domestic purposes is obtained from Windy Lake and that the volume does not exceed 150 cubic metres per day.
2. 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.
3. 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.

**Waste Disposal**

4. 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.
5. 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.

**Wildlife**

6. The Permittee shall ensure that there is no damage to wildlife habitat in conducting this operation.
7. The Permittee shall not locate any operation so as to block or cause substantial diversion to migration of caribou.
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.

Aug-10-00 08:41A Larry Aknavigak  
2000-Aug-10 10:46am From-NUNAVUT IMPACT REVIEW BOARD40 -983-2804 P.01  
+8679832594 T-120 P.003/004 F-718**Environmental**

9. The Permittee shall ensure that the land use area is kept clean and tidy at all times.
10. The Permittee shall prepare the site in such a manner as to prevent damage to the ground surface.
11. The Permittee shall be required to undertake any corrective measures in the event of any damage to the land as a result of the permittee's operation.
12. The Permittee shall not move any equipment or vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging.
13. The Permittee shall locate all structures on gravel, sand or other durable land.

**Archaeological Sites**

14. 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.

**Other Recommendations**

1. NIRB would like to encourage the proponent to hire local people and services, to the extent possible, and to continue consult with local residents regarding their activities in the region.
2. Any amendment requests deemed by NIRB to be outside the original scope of the project will be considered a new project.

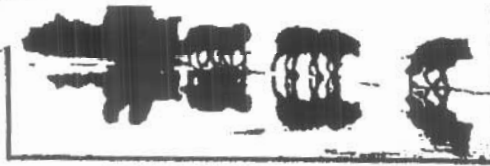
**Validity of Land Claims Agreement****Section 2.12.2**

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 August 10/10 at Cambridge Bay, NT

  
Larry Pokok Aknavigak, Chairperson

Attachment: NIRB Screening Form



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## NUNAVUT IMPACT REVIEW BOARD SCREENING FORM

### I. General File Information on Screening

NIRB #: 00WAD49  
(yy-xxx)

Authorizing Agency #(s): NWR2HOP  
permit or licence #

Project Title: Amendment to North Hope Bay Water permit  
Title of Project

Proponent: Hope Bay Joint Venture  
Company/Applicant

Proponent's Address: Suite 850, 600 Rene Levesque Blvd. West  
Montreal, Qc.  
H3B 1X9  
Full Address

Contractor:

Company - persons doing the work if different from the proponent

address and contact numbers

Proposed Dates of Activity: Start Date \_\_\_\_\_ End Date \_\_\_\_\_  
(yyyy-mm-dd) (yyyy-mm-dd)

EA Starting Date: July 6, 2000  
Date application accepted (yyyy-mm-dd)

Date Application Referred for Comments: July 11, 2000  
(yyyy-mm-dd)

Deadline for Comments: August 1, 2000  
(yyyy-mm-dd)

NIRB's EA Indication: 12.4.4 (a)

Date of Indication: August 10, 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: Lorna Porter  
(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: amendment  
(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): KL399C026  
(file number)

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

**3. Project Location**

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

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

Geographic Place Name: Hope Bay Belt  
(nearest place name or geographic feature)

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

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

Latitude/Longitude: See application  
(degrees, minutes seconds)

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

Nearest Settlement: Omingaktook

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): Installation  
 (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  
 (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**

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.



## EXECUTIVE SUMMARY

Miramar Hope Bay Ltd. and Cambiex Exploration Inc., collectively the Hope Bay Joint Venture ("HBJV") request an amendment to their North Hope Bay Water permit NWB2HOP0002 to allow the construction and implementation of a new sewage treatment facility at the Windy Camp. The permit currently authorizes water use and disposal of waste associated with diamond drilling and camp domestic water usage in the Windy Lake and Wolverine Lake areas.

Currently all septic wastes at the Windy Camp are deposited into latrine pits. The installation of the ROTODISK Sewage Treatment System will improve the current latrine system by (1) providing natural bio-treatment of wastes, (2) discharge of sewage and greywater to a location which will be sufficiently removed from Windy Lake so that it will not impair the quality of Windy Lake water and (3) will also eliminate the possibility of future coliform contamination of Windy Lake from flooded latrines during freshet.

The ROTODISK plant was previously one of two plants permitted and installed at the Boston Camp in 1997. The estimated effluent volume at Boston was over-estimated and the second unit was never utilized. The HBJV has therefore moved the second ROTODISK plant from the Boston camp to the Windy Lake camp and intends to install it during the summer of 2000. Peak capacity at the Windy camp during the 2001 exploration program is expected to be 50-60 people, significantly less than the peak design capacity for 95 people. Attached to this permit amendment are the original design documents and summary operating information provided by the manufacturer CMS Group Inc.

The HBJV recognizes that the Hope Bay region is environmentally very sensitive. The proposed work is not expected to have any significant negative impacts on the environment. The HBJV is also concerned with the quality of the Windy Lake water, and as such the HBJV will implement a regular water sampling program to ensure the quality of water is not adversely affected.

The HBJV intends to commence construction of these facilities approximately July 15, 2000. However, the facilities will not be fully operational until February 2001.



## 6. Description of the Environment

### Description of Biophysical Environment

Most of the present muskox population appears to be concentrated on the northwestern end of Victoria Island.

### Description of Socio-Economic and Cultural Environment

The Melville Sound-Elu Inlet area is a key resource - harvesting area for residents of the Boothurst Inlet Region and many residents of Cambridge Bay. Winter traplines for Arctic fox are common throughout the area. Barren-ground caribou are hunted when encountered. Seal hunting is common in spring and summer. In summer, ducks and geese are an important food supplement. Wolves and muskox are occasionally hunted.

## 7. NLRB's Consultation Process

Date application referred for comments:

July 11, 2000

44-38861-44

Deadline for comments:

August 1, 2000

(1111-1111-1111)

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? \_\_\_\_\_

Sock Variat

July 24 100

**FEDERAL:**

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

Katherine Stark

July 31/00

Anne Wilson

August 1100

Sally 12/10

**GOVERNMENT OF NUNAVUT:**

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

Chris Nichols

August 3100

Doug Stenton

July 19 100

## 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
- ☐ 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
26. ☐ change in slope stability
27. ☐ change in soil structure
28. ☐ alteration of permafrost regime
29. ☐ destabilization/erosion
30. ☐ soil compaction
31. ☐ change in access to renewable resources
32. ☐ depletion of non-renewable resource
33. ☐ removal of rare/endangered plant species
34. ☐ introduction of species
35. ☐ toxin, heavy metal accumulation
36. ☐ removal of rare/endangered wildlife species
37. ☐ change in wildlife health
38. ☐ impact to large mammals
39. ☐ impact to small mammals
40. ☐ impact to fish
41. ☐ impact to birds
42. ☐ impact to other wildlife
43. ☐ impact in a calving, nesting, staging or spawning area
44. ☐ removal of wildlife buffer zone
45. ☐ change in wildlife habitat/ecosystem
46. ☐ other, explain \_\_\_\_\_

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

[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

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
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39. ☒ impact to small mammals
40. ☐ impact to fish
41. ☒ impact to birds
42. ☐ impact to other wildlife
43. ☐ impact in a calving, nesting, staging or spawning area
44. ☐ removal of wildlife buffer zone
45. ☐ change in wildlife habitat/ecosystem
46. ☐ other \_\_\_\_\_

**10. Cumulative Environmental Effects**

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

Matching Number(s)	Description of Cumulative Environmental Effects
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

NO Will the project make large demands on non-renewable energy sources?\_\_\_\_ Will the project encourage further developments within the current project or other developments (other similar projects, energy development, generation, petroleum development and extraction, the building of additional roads): *possibly*NO Will the project encourage a "boom-bust" economy over an economy of permanence?NO Will the project encourage more wildlife harvesting on account of better access for hunters and fishers?\_\_\_\_ Will the project have an effect on the water quality of the watershed? *possibly*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  
Terms & 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 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)

Installation of the treatment facility will provide an improved level of treatment in comparison to the current use of latrines.

Prepared By: Wade S. Touchey Date: August 4, 2000  
Screened (yyyy-mm-dd)**16. NIRB'S Principles**

- ☐ The project has significant adverse effects on the ecosystem, wildlife habitat or Inuit harvesting activities.
- ☐ The project may have significant adverse socio-economic effects on northerners.
- ☐ The project will cause significant public concern.
- ☐ The project involves technological innovations for which the effects are unknown.
- ☒ The project **does not** have significant effects or concerns.

**17. Indication to the Minister (12.4.4)**

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

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

**18. Terms and Conditions**

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

Specific Terms and Conditions to note include:


**19. Authorization**

Approved By: \_\_\_\_\_

(NIRB Decision Maker)

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

(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?  
\_\_\_\_\_

(October 1298 version) Nunavut Impact Review Board Screening Form

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

Aug. 1, 2000

Our File: 4703 001 016

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: Hope Bay Joint Venture - Water Licence NWB2HOP / NIRB 00WA049 - Sewage Treatment Unit Installation - Windy Camp**

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

Installation of the ROTODISK system will provide an improved level of treatment in comparison to the current use of latrines. The application does not provide an indication of treatment capabilities for this system, but it is expected that secondary treatment levels should be achieved. Sludges are to be collected and disposed of at the Boston Camp facility, and the greywater will be incorporated into the sewage effluent stream for discharge to an area north of a rock ridge. However, it is my understanding that this type of system relies upon continuous inputs, rather than providing batch treatment. Has the proponent considered installation of a surge tank ahead of the package, in order to provide consistent flow to the unit?

I noted that the letter from Lorna Porter dated June 29<sup>th</sup> made reference to large-size copies of maps and MSDS sheets (?) which were to be sent by mail to EC and others. Nothing has been received further to the NIRB and NWB applications.

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)

JUL 12 '00 15:10 FR LINE PROGRAMS 519 383 1989 TO

T-476

P.21/38

F-088

3679852574

P.01/01

Co./Dept. E.A.O.	Co. CCG-NWPA
Phone #	Phone #
Fax # 867-983-2574	Fax # 519-383-1989

JUL 14 2000

NUNAVUT IMPACT REVIEW BOARD

## 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: Amendment to North Hope Bay Water Permit Project  
 Proponent: Hope Bay Joint Venture  
 Location: Hope Bay Belt, NIRB#: 00WA049  
 Comments Due By: Tuesday August 1, 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 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 type="checkbox"/> fish and their habitat           |   |
| <input type="checkbox"/> heritage resources in area       |   |

Please describe the concerns indicated above:

Nunavut Waters Protection  
 Summit, Quebec

NO INTEREST

Date: July 12 / 00 RM

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: \_\_\_\_\_ of \_\_\_\_\_  
 Position: \_\_\_\_\_ Organisation: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_

JUL-31-00 10:53 From:DIAND WATER RESOURCES

1-867-685 ...16

T-802 P.01/01 Job-919

Post-It Fax Note	7671E	Date	# of Pages
To	Gladys J	From	Katherine S.
Co./Dept.	NIRB	Co.	WRD-DIAND
Phone #	983-2593	Phone #	669-2649
Fax #	983-2574	Fax #	669-2716

## 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:** Amendment to North Hope Bay Water Permit Project  
**Proponent:** Hope Bay Joint Venture  
**Location:** Hope Bay Belt, **NIRB#:** 00WA049  
**Comments Due By:** Tuesday August 1, 2000

## Indicate your concerns about the project proposal below:

- |   |   |
|---|---|
| <input checked="" 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 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 type="checkbox"/> fish and their habitat           | _____   |
| <input type="checkbox"/> heritage resources in area       | _____   |

**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:** Katherine Silcock of DIAND  
**Position:** Project Specialist **Organisation:** Water Resources  
**Signature:** Katherine Silcock **Date:** July 31, 2000

## 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: Amendment to North Hope Bay Water Permit Project  
Proponent: Hope Bay Joint Venture  
Location: Hope Bay Belt, NIRB#: 00WA049  
Comments Due By: Tuesday August 1, 2000

## Indicate your concerns about the project proposal below:

- |   |   |
|---|---|
| <input checked="" 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 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 type="checkbox"/> fish and their habitat           | _____   |
| <input type="checkbox"/> heritage resources in area       | _____   |

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: Jack Kaniak of Kugluktuk  
Position: \_\_\_\_\_ Organisation: Kitikmeot Inuit Association  
Signature: Jack Kaniak Date: July 24, 2000



August 04 2000

Gladys Joudrey  
Environmental Assessment Officer  
N.I.R.B.  
Cambridge Bay, NT



**Comments towards North Hope Bay Water Permit**

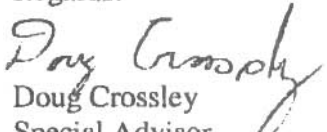
After reviewing the amended request for sewage treatment at the Hope Bay Joint Venture, (Windy Lake Camp), I would tend to agree to let the proponent proceed with the modification for sewage treatment.

With the likelihood of the camp continuing to grow and the treatment of waste water and sewage becoming more of a consideration factor, there is a need to properly deal with waste, so that the primary and still pristine water source remains largely unaffected. I have seen the previous installation at the Windy Camp in the winter season and can only imagine that with an increased daily discharge or a longer approved occupation and work season, that the latrine pits would quickly overflow and discharge their remains into the adjacent water bodies.

This proposed means of dealing with effluent would better direct the flow to a more distant area. We can also assume that if a similar Rotodisk system was fairly recently approved and put in place for the sister Boston camp and that there has been no noted concern yet; that the system can work in this environment.

I would recommend approval for this water licence application.

Regards:

  
Doug Crossley  
Special Advisor  
CG&T - Cambridge Bay

## 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:** Amendment to North Hope Bay Water Permit Project  
**Proponent:** Hope Bay Joint Venture  
**Location:** Hope Bay Belt, **NIRB#:** 00WA049  
**Comments Due By:** Tuesday August 1, 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 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 type="checkbox"/> fish and their habitat           | _____   |
| <input type="checkbox"/> heritage resources in area       | _____   |

## Please describe the concerns indicated above:

*See Written Text*

*Generally No Concern with Approach & Proposal*

## Do you have any suggestions or recommendations for this application?

*No*

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

**Name of person commenting:** Doug Crossley of Cambridge Bay  
**Position:** Special Advisor **Organisation:** CG+T  
**Signature:** Doug Crossley **Date:** Aug 04/00

## 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:** Amendment to North Hope Bay Water Permit  
**Proponent:** Hope Bay Joint venture  
**Location:** Kitikmeot Region, NIRB#: 00WA049/NWB2HOP  
**Comments Due By:** August 5, 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 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 type="checkbox"/> fish and their habitat           | _____   |
| <input type="checkbox"/> heritage resources in area       | _____   |

**DSD has no comment at this time.**

**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:** August 3, 2000

## 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*

\*b0M

*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

- Alex Buchan, (867) 982-7241

Renewable Resource Officer,

- Andy McMullen (867) 982-7250

Regional Biologist,

- Brent Patterson, (867) 982-7244

### 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 (819) 979-8819 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 Kugluktuk (982-7244) to identify areas which should be avoided.

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

### 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.

## CARIBOU PROTECTION MEASURES<sup>1</sup>

1. (a) The Permittee shall not, without approval, conduct any activity between May 15 and July 15 within the Kivalliq region.  
  
(b) A Permittee may, upon approval by the Land Use Inspector (DIAND) or Land Manager (KvIA), operate within the Kivalliq region beyond the May 15 deadline set out in 1(a), provided that when caribou cows are approaching the area of operation, the Permittee will implement 1 (c).  
  
(c) During the period of May 15 to July 15, the Permittee will suspend all operations, particularly blasting, overflights by aircraft at any altitude of less than 300 metres above ground level, and the use of snowmobiles and ATV's (all-terrain vehicles) outside the immediate vicinity of the camp, and all personnel will remain quietly in camp or, upon advice from the Land Use Inspector (DIAND) or Land Manager (KvIA), the Permittee will remove all personnel from the site who are not required for the maintenance and protection of the camp facilities and equipment.  
  
(d) The Permittee may resume activities prior to July 15 if the caribou cows have ceased to use the area for calving or post-calving.
2. (a) During migration of caribou, the Permittee shall not locate and operation so as to block or cause substantial diversion to migrating caribou.  
  
(b) The Permittee shall cease activities that may interfere with migration, such as airborne geophysics surveys or movement of equipment, until the migrating caribou have passed.
3. The Permittee shall not construct any camp, cache any fuel or conduct blasting within 10 km, or conduct any diamond drilling operation within 5 km, of any "Designated Crossing" as outlined on the map annexed to a Land Use Permit.
4. Concentrations of caribou should be avoided by low-level aircraft at all times.

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<sup>1</sup> Based on the Caribou Protection Measures (Qamanirjuaq and Beverly Herds) 1988, DIAND

***Note: These caribou protection measures are provided as guidance for land users. The following is from a Kitikmeot Inuit Association land use permit and is provided for illustration:***

**Protection measures would apply to industrial activity, though not necessarily tourism, outfitting or other activities. They could be implemented at least three different ways: as part of a regional land use plan (zoning); through the Nunavut Wildlife Management Board (wildlife regulations); and through terms and conditions attached to land use authorizations (land use regulations). For example, the Kitikmeot Inuit Association attaches caribou protection measures to permits it grants to companies seeking to work on its lands.<sup>2</sup>**

**The NPC anticipates that the land managers, government and industry will work together to refine the measures for specific land use applications. This is already being done by KIA, as illustrated by provisions in the land use permit granted to BHP:**

35. The Permittee is given permission to conduct the approved land use operations between May 15 and July 15, provided that when caribou and muskox cows are approaching the area of operation, the Permittee shall cease blasting, over-flights by aircraft at any altitude less than 300 meters above ground level, and the use of snowmobiles and ATV's (all terrain vehicles) outside the immediate vicinity of the camp. Other activities shall also be suspended if caribou approach the immediate vicinity of the specific operation and the monitoring work described in clause indicates that there is stress on the animals.
36. During the presence of caribou and muskox within sight and sound of a camp, all personnel will remain quietly in camp.
37. The Permittee may resume activities prior to July 15 if the caribou and muskox cows have ceased to use the area for calving and post-calving.
38. Raptor nesting sites and concentrations of nesting or moulting waterfowl should be avoided by aircraft at all times.
39. The Permittee shall not locate any operation so as to block or cause substantial diversion to migration of caribou.
40. The Permittee shall cease activities that may interfere with migration or calving, such as airborne geophysics surveys or movement of equipment, until the migrating caribou have passed.
41. The Permittee shall not conduct any operation within 5 km of any "Designated Crossing" as outlined on the map annexed to this Land Use Permit.

***From KIA Land Use Permit BHP 197C141***

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<sup>2</sup> West Kitikmeot Regional Land Use Plan, Draft produced for Informal Public Hearing, Ikaluktutiak (Cambridge Bay) NT, 10-11 June 1998, pg. 84.



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Department of  
Culture, Language, Elders & Youth

Pithohilikioni

Ministère du gouvernement  
Culture Langues, Aînés et Jeunesse

Culture and Heritage Division

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

July 12, 2000

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

**Re: Land use Application NIRB 00WA049; Hope Bay Joint Venture – Windy Lake (Hope Bay Joint Venture)**

Due Date: August 1, 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, 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.

Sincerely,

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





## 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.



# Nunavut Territory Archaeological Site Record Form

## Project Information

Project	Start Date	End Date	Status	Progress (%)	Owner	Team	Budget (€)	Actual Cost (€)	Variance (€)	Forecast (€)	Notes
Project A	2023-01-01	2023-03-31	Completed	100	John Doe	Team Alpha	100000	98000	2000	100000	On schedule and budget.
Project B	2023-04-01	2023-06-30	In Progress	75	Jane Smith	Team Beta	150000	155000	-5000	150000	Minor budget overrun.
Project C	2023-07-01	2023-09-30	On Hold	0	Mike Johnson	Team Gamma	80000	0	80000	80000	Resources allocated elsewhere.
Project D	2023-10-01	2023-12-31	Planned	0	Sarah Lee	Team Delta	120000	0	120000	120000	Initial planning phase.
Project E	2023-01-01	2023-05-31	Completed	100	David Brown	Team Alpha	90000	92000	-2000	90000	Completed ahead of schedule.
Project F	2023-06-01	2023-08-31	In Progress	50	Emily White	Team Beta	70000	71000	-1000	70000	On track.
Project G	2023-09-01	2023-11-30	On Hold	0	Chris Green	Team Gamma	60000	0	60000	60000	Waiting for client approval.
Project H	2023-11-01	2024-01-31	Planned	0	Alex Black	Team Delta	110000	0	110000	110000	Preparation phase.
Project I	2023-02-01	2023-04-30	Completed	100	Mia Grey	Team Alpha	50000	51000	-1000	50000	Completed on time.
Project J	2023-05-01	2023-07-31	In Progress	90	Noah Blue	Team Beta	40000	40500	-500	40000	Nearly finished.
Project K	2023-08-01	2023-10-31	On Hold	0	Olivia Red	Team Gamma	30000	0	30000	30000	Paused due to budget cuts.
Project L	2023-10-01	2023-12-31	Planned	0	Liam Purple	Team Delta	20000	0	20000	20000	Initial phase.
Project M	2023-01-01	2023-03-31	Completed	100	Ava Yellow	Team Alpha	70000	70000	0	70000	Completed perfectly.
Project N	2023-04-01	2023-06-30	In Progress	60	Ethan Orange	Team Beta	80000	82000	-2000	80000	Minor delay.
Project O	2023-07-01	2023-09-30	On Hold	0	Sophia Pink	Team Gamma	60000	0	60000	60000	On hold until next quarter.
Project P	2023-10-01	2023-12-31	Planned	0	Lucas Brown	Team Delta	90000	0	90000	90000	Planning stage.
Project Q	2023-01-01	2023-04-30	Completed	100	Isabella Green	Team Alpha	50000	50000	0	50000	Completed on time and budget.
Project R	2023-05-01	2023-07-31	In Progress	80	Mason Blue	Team Beta	40000	41000	-1000	40000	Almost done.
Project S	2023-08-01	2023-10-31	On Hold	0	Evelyn Red	Team Gamma	30000	0	30000	30000	Paused.
Project T	2023-11-01	2023-12-31	Planned	0	Benjamin Purple	Team Delta	20000	0	20000	20000	Initial phase.
Project U	2023-02-01	2023-04-30	Completed	100	Charlotte Yellow	Team Alpha	60000	60000	0	60000	Completed successfully.
Project V	2023-05-01	2023-07-31	In Progress	70	James Orange	Team Beta	50000	52000	-2000	50000	On track.
Project W	2023-08-01	2023-10-31	On Hold	0	Amelia Pink	Team Gamma	40000	0	40000	40000	On hold.
Project X	2023-10-01	2023-12-31	Planned	0	William Brown	Team Delta	30000	0	30000	30000	Planning.
Project Y	2023-01-01	2023-03-31	Completed	100	Grace Green	Team Alpha	70000	70000	0	70000	Completed on time.
Project Z	2023-04-01	2023-06-30	In Progress	85	Henry Blue	Team Beta	60000	61000	-1000	60000	Nearly complete.

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

Address \_\_\_\_\_

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

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

### Geographic Information

Field Number: \_\_\_\_\_ Borden Designation: \_\_\_\_\_

Upper Borden: \_\_\_\_\_ Lower Borden: \_\_\_\_\_ Number: \_\_\_\_\_

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

Region:	Qikiqtani	Kivalliq	Kitikmeot
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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: \_\_\_\_\_



Documentation:

## Field Notes

## Photographs

### Sketch

## Video

Comments:

Please attach additional pages if necessary.