

January 27, 2000

To: Ri

Rita Becker

Licensing Administrator Nunavut Water Board Gjoa Haven, NU

Re: Mineral Exploration Nowyak Lake Are NIRB: 00EN061 DIAND: N1999 0114

Enclosed is the completed NIRB Screening Dession Report for a land use permit for mineral exploration in the Nowyak Lake Area is at the community of Arviat.

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

NIRB's indication to the Minister is: 12.44 (a) the proposal may be processed without a review under Part 5 or 6; NIRB may reformed specific terms and conditions to be attached to any approval, reflecting the primary objectives set out in Section 12.2.5;

Please contact myself, at (867) 983-2593 f you have any questions about the Screening Report.

Yours truly,

Gladys Joudrey

Environmental Assessment Officer

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JAN 2 8 2000

PUBLIC REGISTRY



ACTION OF THE PROPERTY OF THE

SCREENING DECISION

Date: January 27, 2000

Thomas Kudloo Chairperson Nunavut Water Board Gjoa Haven, NT

Dear Mr. Kudloo:

RE: Screening Decision of the Nunavut Impact Review Board (NIRB) on Application: DIAND N1999C0114 NIRB 00EN061 Mineral Exploration Nowvak Lake Area

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.

rimary Objectives:

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

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

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 wild ife 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 and traditional
 users of area;
- the impact of campsite and equipment on terrai
- the impact of exploration activities on archaeological sites or cultural landmarks in the area;
- clean up/restoration of the camp site and drilling locations upon abandonment.

Terms and Conditions:

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

Drill Sites

- 1. The Permittee shall not conduct any land base drilling within thirty (30) metres of the normal high water mark of a water body.
- 2. The Permittee shall conduct any lake-based wester drilling, in accordance with the Interim Guidelines for On-Ice drilling.
- 3. The Permittee shall ensure that all drill cuttings are removed from ice surfaces.
- 4. The Permittee shall not use drilling muds or a lditives 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 Pe mittee shall ensure that any drill cutti gs and waste water that cannot be recirculated be disposed of in a properly constructed sump or an appropriate natural depression that does not drain into a waterbo y.
- 6. The Permittee shall ensure that drilling wast a do not enter any water body. The use of biodegradable, salt free drill additives is encouraged over non-biodegradable types.
- 7. The Permittee shall ensure that the sump/dep ession capacity is sufficient to accommodate the volume of waste water and any fines that re produced so that there will be no additional impacts.
- 8. The Permittee shall not locate any sump with a thirty (30) metres of the normal high water mark of any water body.

- 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 not use mechanized clearing within 30 meters of the normal high water mark of a watercourse in order to maintain a vegetative mat for bank stabilization.
- 11. 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. The occurrence shall be reported to the Nunavut Water Board and Land Use Inspector within 48 hours.

Water

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 one (31) 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 construct an impermeable dyke fround each stationary fuel container or group of stationary fuel containers where one container has the capacity exceeding 4,000 litres.
- 16. The Permittee shall take all reasonable precautions prevent the possibility of migration of spilled petroleum fuel or chemicals over the ground surface.
- 17. The Permittee shall have one extra fuel storage container on site equal to, or greater than, the size of the largest fuel container.
- 18. The Permittee shall examine all fuel and chemical storage containers daily for leaks. All leaks should be prepared immediately.
- 19. The Permittee shall seal all container outlets except the outlet currently in use.
- 20. The Permittee shall mark all fuel containers with the Permittee's name.
- 21. The Permittee shall dispose of all combustible waste petroleum products by incineration and removal from the site.
- 22. The Permittee shall have an approved emergency response and spill contingency plan in place prior to the commencement of the operation.
- 23. The Permittee shall immediately report all spills of petroleum and hazardous chemicals to the twenty four (24) hour spill report line at (867) 920-8130.

Waste Disposal

24. 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.

- 25. The Permittee shall not locate any sumps or areas designated for waste disposal within thirty (30) metres of the ordinary high water mark of any body of water, and be sufficiently bermed or otherwise contained to ensure that these sub-tances to do not enter a waterway unless otherwise authorized.
- 26. The Permittee shall treat greywater and sewage according to the terms and conditions outlined in the NWB approval.
- 27. The Permittee shall backfill and recontour all sumps to match the natural environment prior to the expiry date of the license.
- 28. The Permittee shall incinerate all combustible and food wastes daily. The Permittee shall use as a minimum incineration method a 45 gallon drum modified to form a more efficient incinerator.
- 29. The Permittee shall keep all garbage and debris in a covered metal container until disposed of
- 30. The Permittee shall ensure that all wastes generated through the course of the operation are backhauled and disposed of in an approved dumpsite.
- 31. The Permittee shall deposit all scrap metal, discarded machinery and parts, barrels and kegs, at an approved disposal site.

Wildlife

- The Permittee shall ensure that there is no damage to wildlife habitat in conducting this
 operation.
- 33. The Permittee shall not feed wildlife.
- 34. The Permittee use the latest bear detection and deterrent techniques to minimize man-bear interactions and shall report any Man-Bear Interactions to the nearest Renewable R source Officer or contact (867) 873-7181.
- 35. The Permittee shall ensure that the drill sites avoid known environmentally sensitive areas (denning, nesting etc.) by a minimum of 250 metres.
- The Permittee shall not locate any operation so as to block or cause substantial diversion to migration of caribou.
- 37. The Permittee shall cease activities that may interfere with migration or calving, such as airborne geophysics surveys or movement of equipment, drilling activities until the caribou and their calves have vacated the area.
- 38. The Permittee shall not conduct any activity associated with the land use operation during critical periods of wildlife cycles (eg. caribou migration, calving, fish spawning or laptor nesting).
- That the Permittee shall ensure that there is no hunting by employees of the company or any contractors hired.
- 40. That the Permittee remove any carcasses along the roadway to prevent attraction by scavengers, preventing further road kills.
- 41. The Permittee shall ensure that aircraft pilots adhere to recommended flight altitudes of greater than 300 m above ground level as to not disturb wildlife. Raptor nesting sites and concentrations of nesting or molting waterfowl should be avoided by aircraft at all imes.
- 42. 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 ype in

water frequented by fish or in any place under any conditions where the deleterious substance may enter such a water body.

43. 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.

44. The Permittee shall not detonate explosives within fifteen (15) metres of any body of water which is not completely frozen to the bottom.

Environmental

- 45. The Permittee shall ensure that the land use area is kept clean and tidy at all times.
- 46. The Permittee shall prepare the site in such a manner as to prevent rutting of the ground surface.
- 47. The Permittee shall not do anything that will cause erosion of the banks of any body of water on or adjacent to the land and shall provide necessary controls to prevent such erosion.
- 48. 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.
- 49. The Permittee shall complete all clean-up and restoration of the lands used prior to the expiry date of the permit.
- 50. The Permittee shall not remove any material from below the ordinary high water mark of any waterbody.
- 51. The Permittee shall adopt such measures as required to control erosion by surface disturbance
- 52. The Permittee shall not move any equipment of vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging.
- 53. The Permittee shall suspend overland travel of equipment or vehicles if rutting occurs.

Structure & Storage Facilities

- 54. The Permittee shall not erect structures or store material on the surface ice of lakes or streams.
- 55. The Permittee shall locate all structures and storage facilities on gravel, sand or other durable land.
- 56. The Permittee shall use existing housing facilities.

Archaeological Sites

57. 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.



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NUNAVUT IMPACT REVIEW BOARD SCREENING FORM

I. General File Information on Screening
NIRB#: DENDIOL Authorizing Agency #(s): DIANU
(yy-xxx) ' permit or licence #
Project Title: Miresal Explanation Wayal lake Area.
Proponents Preix Sche Company/Applicant
Proponent's Address: Suite 912, 120 Adelide St. West
Towards, ON M5H HT
Fall Address
Contractor: Company / persons doing the work if different from the proponent
address a contact numbers
Proposed Starting Date of Activity: 00 00 5
EA Starting Date: Dec 22, PP9
Date application accepted (yyyy-mm-dd)
Date Application Referred for Comments: Scan (yyyy-mm-dd)
Deadline for Comments: 500 14 2005
NIRB's EA Indication: 12.4.4 (c)
Date of Indication: Tomos Sit 2000
Project Cancelled: Yes, Give Reason
Comments:
The state of the s

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: Scale Scale (office where project file is located, contact person, number)
Land Status: Inuit Owned Crown Commissioner's Marine Areas
Type of Application: \(\) \(
Type of Approval being sought: (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):
Previous Authorizations (inactive/expired): (file number)
3. Project Location
Kivalliq Kitikmeot Baffin
Land Use Planning Region: (c.g. West Kitikmeot North Baffin, South Baffin, Kivalliq)
Geographic Place Name: Nowada Male (nearest place name or geographic feature)
Local/Traditional Name:
National Topographic Sheet (NTS) Number: 156-5 Scale: 1:250,000
Latitude/Longitude: 61 46 946 310 to 60 47 940 34
Drainage Region and Watershed: (nearest creek, wer or lake system)
Nearest Settlement: Assist
Adjacent Settlement/Out-post camps:
Special Designation: (Yes/No e.g. Heritage River, Wildlife Reseserve, Park)
Special Designation: (Yes/No.e.g. Heritage River, Wildlife Reseserve, Park) Does the project have Nunavut transboundary implications? Yes No.

(October 1998 version) Nunavut Impact Review Board Screening Form

PHELPS DODGE CANADA

P.12/57 F-263

T-800

Phelps Dodge Exploration

Proposed Drill Program - Nowyak Lake, Nunavut January 10, 2000

This Summary is intended for attachment to an application for a Water Use Permit.

Phelps Dodge Corporation of Canada is proposing to conduct an initial drilling program on the NOK 1-11 claims in NTS area 65G-15. This area is located approximately 12 kms southwest of Navigator Exploration's camp at the north end of Nowyak Lake. Nowyak Lake is approximately 350 kms southwest of Rankin Inlet and 250 kms northwest of Arviat. Exploration on this property is at a very early stage where we want to conduct an initial drill test of a gold showing that we discovered in 1998 and mapped in 1999.

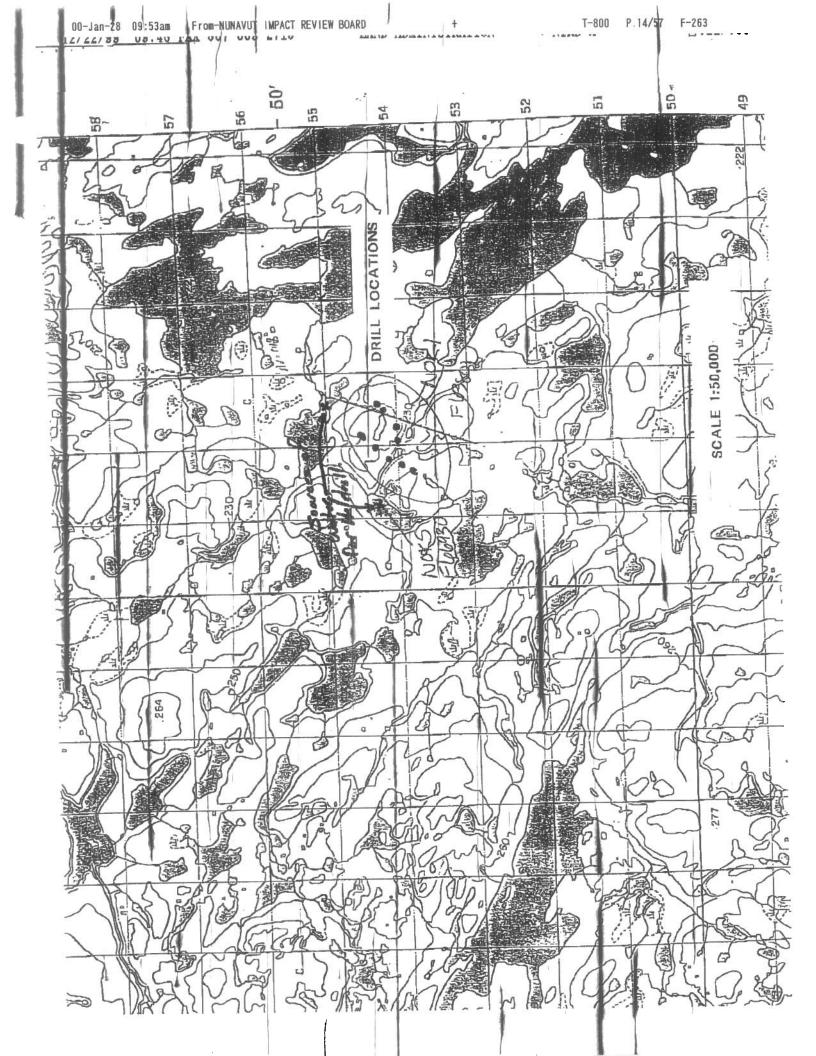
The proposed drilling program will involve the drilling of 9 holes for a total of 1000 m. The program will begin with the fuel haul from Arviat to Navigator Exploration's camp at the north end of Nowyak Lake. Navigator have allowed Phelps Dodge the use of their camp. Phelps Dodge will not build a camp on site for this operation. Eskimo Point Lumber & Supply will haul 50 drums of diese, 35 drums of Jet B, and 1 drum of gasoline along with 3 cylinders of propane and 30 (20 kg) bags of calcium chloride from Arviat overland using Terra-Flex machines. The fuel haul is expected to begin some time after Fcb. 15. The Fuel will be stored at Navigators camp. When drilling begins fuel will be transported to the drilling area but only in quantities needed for daily operations.

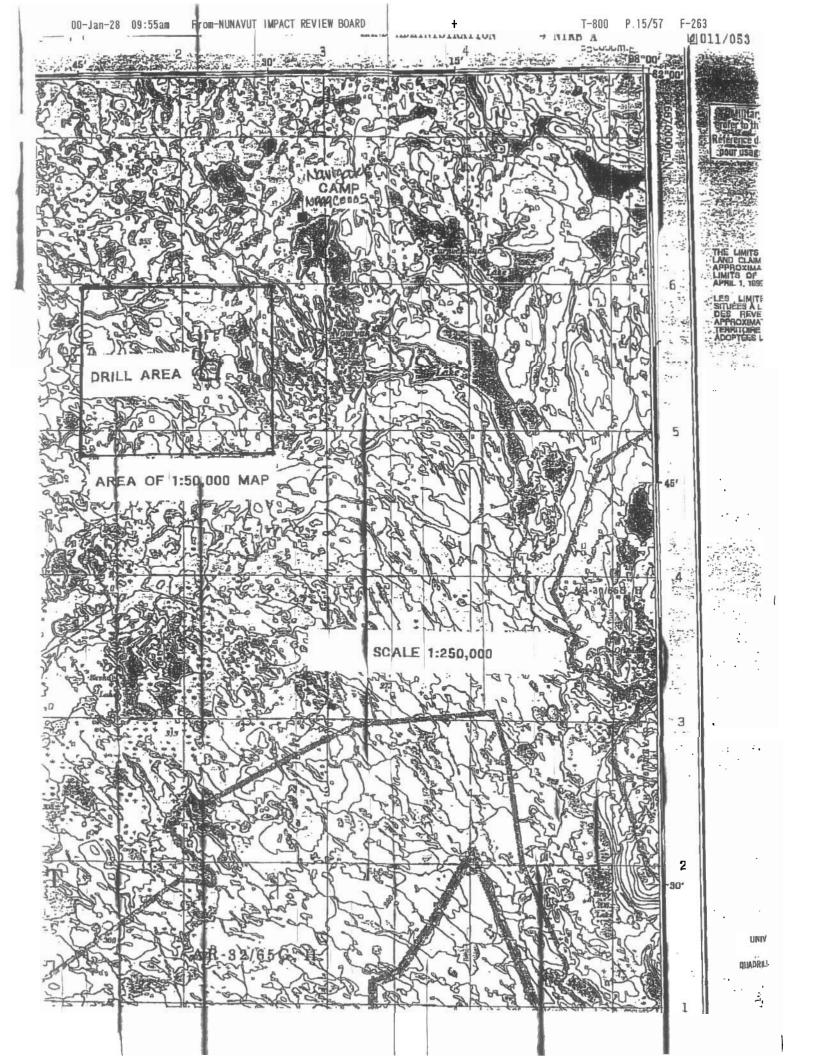
The actual drilling program will begin on or about March 15, 2000 with the mobilization of the drill crew by air from Points North Landing in Saskatchewan. The crew will consist of 9 people. Phelps Dodge will have a project geologist (Marius Mare, Winnipeg) and one assistant on site. Midwest Drilling will provide a drill crew of 6 including a cook and foreman. There will also be a Bell 206 B helicopter (Custom Helicopters or Arctic Sunwest) pilot. The drill rig, belonging to Major Midwest Drilling, is currently stored at Navigator's camp. The drill area is 12 kms SW of the camp. All drill moves including the initial one from the camp to the drill area will be done using the helicopter.

We plan to drill 9 holes for a total of 900 meters of drilling. Thus each hole will be approximately 100 meters long. The drill area is contained within an area 1000 m x 1000 m which is shown on the attached 1 50,000 scale map. Water for the drill will be drawn from two lakes located 400 to 500 meters from the nearest drill holes. These lakes are also indicated on the map. The main drilling fluid will be heated water (fuel pil fired coil stoves will be used). Drilling additives will be added to the drill water as needed. These additives will include Calcium Chloride, Poly Drill Clay Treat II, Poly Drill 133X/1330, Poly Drill O.B.X. All of the holes will be drilled on land. There is therefore no plan to recycle the water or remove the drill cuttings. The fuel for the drill and the opil stoves will be stored at Navigator's camp. Fuel will be moved to the drill site on ar as needed basis by helicopter. The core will be logged, sampled, and stored at the Nav gator camp site. All casing will be removed from the drill holes. The drilling program including demobilization of the drill and fuel drums is expected to be complete by May 15, 2000.

The drill fuel and helicopter fuel will be stored at the Navigator camp site in 45 gallon drums until needed. The helicopter will sling drums as needed to the drilling area on a daily basis. Matasorb matting will be used at the drill sites, fuel storage areas, and fuel transfer points to absorb any spillage that may occur. The drill crews are trained in the use of this matting. The used matting will be bagged and flown out to Points North Landing or Arviat for disposal. Waste oils and greases will be placed in containers and they will also be flown out for disposal. Transfer of fuel from the drums to the fuel tanks will be done using a hand operated pump.

At the end of the drill program plans have been made to have the drill and all the drilling equipment flown out to Points North Landing or other location, such as Arviat or Rankin Inlet, as directed by the drill company. The empty drums will be flown back to Arviat. Navigator Exploration will remain responsible for the camp and camp facilities.





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 NIRB's Consultation Date application referred for 		Tr	
Deadline for comments:		Sca	(yyyy-mm-dd)
Distribution List: NUNAVUT: NTI	Contact	erson	Date comments received:
QIA Kivalliq I.A. Kitikmeot I.A. NPC NWB NWMB			
Inuit Heritage Trust Community(s) Hamlet HTO Other?	Arriat	-00	ing Zenz Franz
DIAND DFO DOE Heritage Can. Natural Resources CC Other? (eg. Health DOT, DND)	Rick manne	an	200 13' 3000
GNWT: DRWED Transport MACA PWNHC Other (eg. Health, Soc.Serv., ECE) TRANSBOUNDARY PARTIES	Charles (Son 14, 2000
OTHER PARTIES RSCVA		1	

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(October 1998 version) Nunavut Impact Review Board Screening Form

Identification of Project Activities and Environmental Effects
Identify all activities of the project under screening and their potential adverse environmental effects.

Project Activities	Project Effects
(√ check all the items appropriate to this project)	(v check all the items appropriate to this project)
access road	D: 11 10 1 7 10 C 1
winter	Directly related Socio-Economic & Cultural
construction	Effects:
abandonment/removal	1impact to hunting / trapping / fishing
modification e.g., widening	2impact on:women
mountainen e.g., wideming	Tmen
automobile, aircraft or vessel movement	children
blasting	
-X burning	elders
	 impact to traditional use or traditional use area
channelling	4impact to outfitters
construction	5impact on recreational use
building	6impact on family structure
shed/warehouse	7 impact to community health
landing strip	8 change in community economics
cut and fill	
removal of vegetation	
dams and impoundments	nfrastructure
construction	10 impact to industry
abandonment/removal	11change in regional transportation
modification	12. Limpact to archaeological or cultural landmarks
ditch construction	 impact on beauty of the landscape
drainage alteration	14other, explain
drilling other than geoscientific	
ecological surveys	Biophysical Environment Effects
excavation	15. deposit into surface or ground water
_explosive storage	16 deposit to musica agriculturale
V fuel storage	16 deposit to marine environment
∨garbage	17 change in surface or ground water flow
disposal of hazardous waste	18 change in water temperature
disposal of sewage or grey water	19 change in drainage pattern
disposal of solid waste	20 change in air quality
✓ geoscientific sampling	21 change in air flow
trenching	22micro-climate change
diamond drill	23jee fog
borehole core sampling	24. Zchange in ambient noise level
bulk soil sampling	25 deposit onto ground surface
quarry	26 change in slope stability
hydrological testing	
nver/stream/lake crossing/bridging	
site restoration	28 alteration of permafrost regime
fertilization	29 destabilization/erosion
grubbing	30 soil compaction
planting/seeding	31 change in access to renewable resources
scanfication	32depletion of non-renewable resource
spraying	 removal of rare/endangered plant species
recontouring	34 introduction of species
_ soil testing	35. toxin/heavy metal accumulation
topsoil, overburden or soil	36. removal of rare/endangered wildlife species
611	37. change in wildlife health
disposal	38. Limpact to large mammals
removal	
storage	
tunnelling/underground	40impact to fish
other, explain CLYCO	41impact to birds
January Company of the Company of th	42 impact to other wildlife
possibility for accidents or malfunctions. Describe	43 impact in a calving, nesting, staging or
printial tirel	spa vning area
, 541C1	44 removal of wildlife buffer zone
66 5 1	45 change in wildlife habitat/ecosystem
effects of environment on project (e.g., flooding).	46. other, explain
Describe.	To. Other, explain

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

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Environmental Effect		Describe
HID	Lester Hice	to minet archaerocial
	185 Dille.	, , ,
1 10 015		Jan dia la
#15,35	Carpo dis	To be detreited hip a
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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	Effec	s from Other Resource Uses
(N check all the items appropriate to this projec)	(Vch	eck all the items appropriate to the scope of this
	projec	
harvesting		
marine mammals	Dire	tly-related Socio-Economic & Cultural
land mammals	Effe	
fur bearers	1	impact to hunting / trapping / fishing
birds	2	impact on:women
shellfish	1	men
plants		children
beeries		elders
hsh	3	impact to traditional use or traditional use area
V mining /		impact to outfitters
Lexploration		impact on recreational use
open pits		impact on family structure
underground	7	impact to community health
off-shore	8	change in community economics
mineral processing	9. 10.	change in community housing or infrastructure
industry (type)		impact to industry
quarries	12	change in regional transportation impact to archaeological or cultural landmarks
carving stone aggregate	13	impact to atchaeological of cultural fandmarks
transportation/communications	14	other, explain
airport / landing strip	- 1	onici, capitali
roads/access routes	Bion	nysical Environment Effects
shipping	15.	deposit into surface or ground water
channels/canal	16.	deposit to marine environment
telephone lines, satellite dishes, cables	17.	Change in surface or ground water flow
beacons	18.	Change in water temperature
waste disposal (solid, liquid or gas?)	19.	change in drainage pattern
energy project	20.	change in air quality
hydro	21.	change in air flow
pipeline	22.	micro-climate change
transmission line	23.	_ice fog
other water licenses, permits, leases	24.	change in ambient noise level
Mands		deposit onto ground surface
Inuit owned		change in slope stability
surface rights	20	change in soil structure
-sub-surface rights	29.	alteration of permafrost regime destabilization/erosion
Commissioner's		soil compaction
Marine Areas	31 7	change in access to renewable resources
_ other private lands held under tenure		depletion of non-renewable resource
Theritage sites or archaeological sites	33.	removal of rare/endangered plant species
I recreation (eg. cabins, tent frames)		Lintroduction of species
Tourism	35.	toxin/heavy metal accumulation
I municipal (construction)	36.	
commercial	37	change in wildlife health
built structures	38	impact to large mammals
infrastructure	39	impact to small mammals
agriculture	40	impact to fish
forestry	41	impact to birds
other, explain	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/ecosys em
	46.	other

10. Cumulative Environmental Effects	
Based on a comparison of effects identified in #8	3 and #9.
Matching Number(s) Description of Cu	mula ive Environmental Effects
,	
Will the project make large demands on nor	n-ren wable energy sources?
Will the project encourage further developm	
developments (other similar projects, energy deve	elopment, generation, petroleum development and
extraction, the building of additional roads? Qo	E CHI
Will the project encourage a "boom-bust" e	concmy over an economy of permanence?
Will the project encourage more wildlife har fishers?	vesting on account of better access for hunters and
Will the project have an effect on the water	quality of the watershed?
Will the project have a significant effect on	existing land uses?
11. Mitigation Measures	
For each environmental effect identified in #8, #	f9 and #10, describe the required mitigation
measures.	
	itigation Measures
(as identified in #8, #9 & #10)	
	1211000
	seeving Decision Helpet
Terre	and Cordinions.
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12. Significance

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

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

Number(s)

Likelihood of Occurrence

Of the significant, residual, adverse environmental effects identified in #12, are any likely to occur? ___Yes I/ No

Number(s)

14. Information Sources

What sources of information were used in the screening process?

local knowledge

traditional ecological knowledge

And use plans (and draft land use plans)

authorizing agencies' data

departmental or agency opinions

/ maps

photos

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

Nunavut Environmental Database (NED)

personal communications

Project Registry (NPC) NIRB previous similar projects

service organizations

_ media monitoring

experts

_ other _

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

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 condition 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 ach 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.

1/27/00 21:36 BEST WESTERN CEDAR PARK INN EDM → 8679832574	T-800 P.24/57 F-263 NO.974 P003/
n-27 08:52pm From-NUNAVUT IMPACT REVIEW BOARD	T-796 P.07/07 F-56
	\ ,
8. Terms and Conditions	
f the determination is 12.4.4 (a), NIRB's terms and conditions include those listecision Report.	ited in the Screening
pecific Terms and Conditions to note include:	1 11
19. Authorization	The state of the s
1 / 1/2	77
1 / 20-1.1	27
Approved By: Dare 2000/01/2	27
pproved By: 2000/61/3 (Night Decision Major) Date: 2000/61/3 (1999-min-date)	27
Approved By: 2000/61/3 (Night Decision Major) Date: 2000/61/3 (Night Decision Major) Minister's Determination	27
Action? Date: 2000/61/3 (Nigs Decision Major) Date: 2000/61/3 (Nigs Decision Major) Date: 2000/61/3 (Nigs Decision Major) Nimister up / Monitoring Minister upreed with NIRB's indication.	27
Action? Date: 2000/61/3 (NIRS Decision Major) Date: 2000/61/3 (NIRS Decision Major) Date: 2000/61/3 (NIRS Decision Major) Minister up / Monitoring Minister ugreed with NIRB's indication. Minister varied NIRB's indication.	27
Action? Date: 2000/61/3 Night Decision Marks) Date: 2000/61/3 (Night Decision Marks) Date: 2000/61/3 Date: 2	27
Approved By: [Night Decision Major) Date: 2000 6 3 (Night Decision Major) Minister up / Monitoring Minister agreed with NIRB's indication. Action? Minister rejected NIRB's indication. Minister rejected NIRB's indication.	27
Action? Date: 2000/61/3 NIBE Decision Marks) Date: 2000/61/3 NITE Decision Marks) NITE Decision Marks) Minister agreed with NIRB's indication. Action? Minister rejected NIRB's indication Action?	27
Approved By: Date: 2000 61/3 Output Decision Majori) Date: 2000 61/3 Output Decision Majori Decision Decisio	27
Approved By: Date 2000 61 3	

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:Mineral Exploration N	
Proponent: _Phelps Dodge Corp. of C	anada Ltd.
Location: _Kivalliq Region, NIRB	
Comments Due By:January 17,	2000
Indicate your concerns about the proj	ect proposal below:
no concerns	☐ traditional uses of land
water quality	☐ Inuit harvesting activities
terrain	community involvement and consultation
air quality	☐ local development in the area
wildlife and their habitat	☐ tourism in the area
marine mammals and their habitat	□ human health issues
birds and their habitat	
Other:	
in fish and their habitat	
heritage resources in area	
Please describe the concerns indicate	ed above:
Please see attached.	
2. The application is for Feb. 15th to July 15th.	The Department realizes this is likely a standard
	mend that the proponents stop using any form of ground
based mobile equiptment after May 1st.	mieria mar me propertiente etep abiligiany form di ground
	minimal, would flushing the drill site with fresh water prior
	de, reduce impacts even further? It seems likely that it
could.	
Do you have any suggestions or reco	mmendations for his application?
Do you have any suggestions of feco	innendations for alls application:
Do you support the project proposal?	YES V NO 🗆
Any additional comments?	
	ainab e Development incorporates a team
	screenings and Reviews. No one person
comments for the Department.	
Position:	_Organisation:Sustainable Development _
Signature: Chris Nichols	Date: January 5, 2000

DEPARTMENT OF SUSTAINABLE DEVELOPMENT

ENVIRONMENTAL PROTECTION SERVICE

STANDARD RECOMMENDATIONS FOR LAND USE APPLICATIONS

Spill Contingency Plan

1 - Car objection and released to commentate of

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 onsite 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 ninimum distance of 90 feet from all streams, preferably in an area of low permeability. All fuel storage containers should be stuated 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 rause or disposal to an approved site using methods approved by the Land Use Inspector. Material safety data sheets (MSDS) should be provided for each chemical and be posted in a central location; accessible by all camp personnel. Camp personnel should be conversant in the handling of these chemicals as well as able to deal with any accidents or spills.

Location of Hazardous Materials

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

Waste Oil/Waste Fuel Disposal

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

and protect

Shadesty refers Cheesa-Magneton B. Cables 1.

100.10

Used Drums

interior of more than a continue Used fuel and oil drums should be removed from the site, returned for deposit, or reused.

: TEXAS

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 lite 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.

Inciheration

For camps of less than 10 people, it is recommended that a draught barrel be employed to burn wastes. A draught barre is essentially a 45 gallon drum or equivalent, with a hole in the bottom to factate air intake, and is closed at the tob with a lid and a chimney for the exhaust. E S 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 drawth barrel should be operated so that a high temperature burn is maintained at all mes. This will promote complete combustion and eliminate pollutant and od r concerns.

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

Kitchen wastes, cardboard, paper product packaging and untreated wood wastes are suitable for burning in a draught barrel and a forced air incinerator. Industria 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 berning or incineration.

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

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

Acts, Regulations and Environmental Guidelines

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

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

Acts and Regulations

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

Environmental Protection Act: Simplified Summary

Environmental Rights Act

{PRIVATE }Spill Planning and Reporting Regulations{to \l 5 "Spill ContingencyPlanting and Reporting Regulations"}

{PRIVATE }A Guide to Spill Contingency Planning & Reporting{to \(\mathbb{I}\) 5 "A Guide to Spill Contingency Planning & Reporting"}

{PRIVATE }Asphalt Paving Industry Emission Regulations{to \ld 5 "Asphalt Paving Industry Emission Regulations"}

{PRIVATE } Pesticide Act{tc V 5 "Pesticide Act

{PRIVATE } Pesticide Regulations{tc N 5 "Pesticide Regulations"}

Used Oil and Waste Fuel Management Regula ons (undergoing completion, proposed for sune 2000)

{PRIVATE }Dust Suppression{tc V 5 |Dust Suppression|}

{PRIVATE }General Management of Hazardou. Waste{tc Ⅵ 5 "General Management of Hazardous Waste"}

{PRIVATE }Industrial Projects on Commissione 's Lands{to \ \ \ 5 "Industrial Projects of Commissioner's Lands"}

{PR||VATE }{tc V 5 ""}

{PRIVATE }Ozone Depleting Substances{tc V "Ozone Depleting Substances"}

{PRIVATE } Site Remediation {tc V 5 | Site Rem diation | }

{PRIVATE } Sulphur Dioxide & Suspended Part culates{tc \| 5 "Sulphur Dioxide & Suspended Particulates"}

{PRIVATE } Waste Antifreeze {tc \ \ \ 5 \ Waste Antifreeze \ '}

{PRIVATE } Waste Asbestos {tc V 5 "Waste Asi estos"}

{PRIVATE } Waste Batteries (tc V 5 "Waste Bat eries")

PRIVATE | Waste Paint{to V 5 "Waste Paint"}

Vaste Solvents

Wildlife

. 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

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 co-flicts

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რეკაფის დააბითანი ია ა იფანაიტი ექმა, აკა DSD Contacts

Manager, Wildlife, Fisheries
- Ian Ellsworth, (867) 887-2828

Renewable Resource Officer,

- nearest community to the land use activity

Biologist, Kivalliq Region, Arviat

- Mitch Campbell, (867) 857-2828

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 substrecies 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 Arviat (857-2828) 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 part cularly harmful."

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.

FION NUNAVUT IMPACT REVIEW BOARD

U4:U8PM

P.08/11 F-056

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COMMENT FORM FOR NIRB SCREENINGS

The Nunavut Impact Review Board has a mandate to protect the intentity of 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:Mineral Exploration Now	yak Lake Area	٦	
Proponent: Phelps Dodge Corp. of Canada Ltd.			
Location: Nowyak Lake Area	, N(RB#:		
Location:Nowyak Lake Area Comments Due By: _Monday January 17,	2000	1	
indicate your concerns about the project	proposal/below:	7	
Mind concerns	In traditional uses of land		
☐ water quality	I Inuit harvesting activities		
☐ terrain	community involvement and consultation		
□ ain quality	p local development in the area		
wildlife and theil habitat	tourism in the area		
marine mammals and their habitat	human hi alth issues		
□ birds and their habitat	Other:	-	
☐ fish and their habitat	+		
Ci heritage resources in area		P	
Please describe the concerns indicated a	adoye:	10	
- 1 1		1	
		1	
1			
	\ \ \		
	,		
Do you have any suggestions or recomm	nendations for this application?		
2 1 1 1			
0 1 1 1			
Do you support the project proposal? Y	ES D NO D		
Any additional comments?	ES LI NO LI		
Any additional comments r	1 1 1 1		
. 1 1 1 1			
		_	
Name of person commenting: Rich M	1ºLBAN OF NWA		
	rganisation: CAMPIAN CO.94 GVAND		
Signature: 125m2	Date: JAN 00/00		

FAX NO. \$678738185

P. 02

COMMENT FORM FOR NIRB SCREENINGS

On behalf of the Environmental Protection Branch (EPB), Environment Canada, I have reviewed the information submitted with the at ove application. EPBs contribution for specialist advice is based primarily on the mandated responsibilities for the enforcement of Section 36 of the Fisheries act and the Canadian Environmental Protection Act (CEPA).

Project Title: Mineral Exploration - Nowyak Lake

Proponent: Phelps Dodge Corporation

Location: Arviat Kivalliq NIRB#: 00EN061

Comments Due By: Monday January 17, 2000

Indicate your concerns about the project proposal below:

- * water quality
- * fish and their habitat

Please describe the concerns indicated above:

Based on the information provided, EPB believes that the above noted project has the polential to affect fish pursuant to 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.

Do you have any suggestions or recommendations for this application?

- The proponent shall ensure that any chemicals, fuel or wastes associated with the proposed project do not enter waters frequented by fish. All sumps and fuel caches should be located a minimum of thirty (30) metres from the normal high water mark of and in such a manner that they do not enter any such waterbody. Portable secondary fuel containment structures should be used in the fuel storage for added spill protection.
- Drilling wastes from land-based drilling shall be disposed of in a sump such that they do not enter any waterbody. Sump construction for this application is vague lacking sufficient detail such as sump capacity/volume and liner materials.
- 3. The deposition of slash, debris or sediment into any waterbody is prohibited. These materials shall be disposed of above the high water mark in such a shion that they do not enter the water.
- 4. If artesian flow is encountered, drill holes shall be plugged and permanently shalled upon project termination.
- All solid wastes and waste oils must be dispose of in an approved and environmentally safe manner, burning in an incinerator is the preferred method.
- 6. EPB shall be advised of any material changes to mans or operations associated with this project.

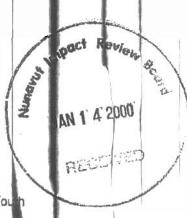
Name of person commenting: Wade Roman of Environmental Protection Branch

Position: Aquatic Environmental Office

Organisation: Environmental Canada

Suite 301, 5204-50th Ave., Yellowknife NWT

Signature: Unanto Date: JAN 17/2000



201 23

January 10, 2000

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

Re: Land use application NIRB 00EN061; Mineral exploration in the Nowyak Lake area (Phelps Dodge Corporation of Canada Ltd.)

Due Date: January 17, 2000

Dear Ms. Levi:

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

We recommend approval of the above-cited application as the proponent's proposed activities do not constitute a threat to known archaeological resources.

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

Regards,

Original Signed By (Naples D. Aviold

> Charles D. Arnold, Director Culture and Heritage Division

Prince of Wales Northern Heritage Centre

Nunavut Impact Review Board

ARCHAEOLOGICAL RESOURCES: TERMS AND CONDITIONS BACKGROUND

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

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

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

- "Archaeological site" means a site of work within Nunavut of archaeological, ethnographical or historical importance, interest or significance or a place where an archaeological specimen is found, and includes explorers' cairns. "Archaeological specimen" means an object or specimen found in an archaeological site of archaeological, ethnological or historical importance, interest or significance and includes explorers' documents.
- III. Any new Terms and Conditions raising issues found in ss. 10 and 16 of the Territorial Land Use Regulations should duplicate statutory sections or be stricter, but not more lenient in terms of protection of archaeological resources.
- IV. 1. The permittee shall not operate any vehille over a known or suspected archaeological site.
 - 2. The permittee shall not remove, disturt or displace any archaeological specimen or site.
 - The permittee shall contact the Department of Culture, Language, Elders and Youth, Iqaluit (867-979-4720) and DIAND official hould an archaeological site or specimen be encountered or disturbed by any land to a activity.
 - The permittee shall immediately cease any activity which disturbs an archaeological or historical site, encountered during the ourse of a land use operation, until permitted to proceed with the authorization of the De artment of Culture, Language, Elders and Youth.
 - 5. The permittee shall follow the direction of the Department of Culture, Language, Elders and Youth and DIAND in restoring disturbed archaeological sites to an acceptable condition, and according to the respective jurisdictions and authorities.
 - The permittee shall provide information to the Department of Culture, Language, Elders and Youth about each archaeological site or a pecimen 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.

JHN 07'00 16:1 No.001 P.01

Kcewatin Wildlife Federation PO Box 229 Arviat, Nunavut XOC OEO

January 7, 2000

Gladys Jourdrey
Environmental Assessment Officer
Nunavut Impact Review Board

Re: KWF Comments on land use application. NIRB# 00EN061
Project: Mineral Exploration Nowyak Lake Area
Proponent: Phelps Dodge Corp. of Canada Ltd.

As per the application from Phelps Dodge Corp. for Mineral Exploration in Nov yak Lake Area, Keewatin Wildlife Federation supports the proponent with the project.

Kcewatin Wildlife Federation is aware of the potential effects on the ecosystem and socio-economic environments.

For further clarification, contact the KWF office.

Sincerely,

Angie Okatsiak, KWF Finance/Office Manager

Cc: David Alagalak, KWF President

P.38/57 F-263 T-800 From-NUNAVUT IMPACT REVIEW BOARD 00-Jan-28 10:13am JAN-10-00 15:25 From: DIAND WATER RESOURCES 9676692718 T-298 P.02/07 Job-265 Nob 183 R 638 P 43 JAN-04-00 15:27 E 03/11 F-056 T-392 DO-Jan-04 04:23pm From-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: __Mineral Exploration Nowyak Lake Area Proponent: Phalps Dodge Corp. of Canada Ltd. NIRB#: __OOENO61 Location: Nowyak Lake Area Comments Due By: _Monday January 17, 2000 Indicate your concerns about the project proposal below: traditional uses of land ☐ no concerns Inuit harvesting activities M water quality community involvement and consultation □ terrain local development in the area air quality tourism in the area m wildlife and their habitat marine mammals and their habitat human health issues birds and their habitat I fish and their habitat Li heritage resources in area Please describe the concerns indicated above: If daily water use exceeds 100 cubic meters per day, then a water licence may be required. If projections indicate this is the case, then the proponent should contact the Nunavut Water Board. Do you have any suggestions or recommendations for this application? Spill continuency plan should include requirement to contact 24- Lour spil Report Line at 1867) 920-8130 in the event of Do you support the project proposal? YES 🖾 Any additional comments? Name of person commenting: Reservers | Of Water Personices
Position: Project Specialist Organisation: DIAND
Signature: Page 12 | Date: Dat Signature:_ 2000

F=313

T-173 P.002/011

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 anvironmental and socio-economic impacts of project proposals. NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title:Mineral Exploration Nowyak Lake Area	
Proponent: Phelps Dodge Corp. of Cana	da Ltd.
Location:Nowyak Lake Area Comments Due By: _Monday January 17, 2	, NIKE#:00EN061
	000
Indicate your concerns about the project p	roposal helow:
	Traditional uses of land
Wwater quality	☐ Inuit harvesting activities
□ terrain	Community involvement and consultation
□ air quality □ wildlife and their habitet	local development in the area
	tourism in the area
	human health issues Di Other:
R fish and their habitat	
heritage resources in area	
Please describe the concerns indicated about	ova:
DEE ISSTED OF IN	41000
SEE LETTER OF AD	MICE ATTACHED
Do you have any suggestions or recommer	dations for this application?
Do you grant the ended	
Do you support the project proposal? YES Any additional comments?	NO 🗆
any additional entitions	
Name of person commenting:	of
Signature: Orga	nisation: UFO
Signature:	
A.	

00-Jan-28 10:14am From-NUNAVUT IMPACT REVIEW BOARD + Jan-17-2000 15:45 From-FISHERIES & OCEANS +1-867-668-4841

T-800 P.40,

T-173 P.003/011 F

Fisheries and Oceans

Pêches et Océans

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

Your file Yours refusence

Our file Nutra night conce 00-HCAA-CA6 000-000003

January 17, 2000

Gladys Joudrey
Environmental Assessment Office
Nunavut Impact Review Board
P. O. Box 2379
Cambridge Bay, NT
X0A 0C0

RE: NIRB File # 00EN061 Mineral Exploration Nowyak Lake Area,

Dear Ms. Joudrey:

The Department of Fisheries and O eans, Fish Habitat Management - NWT Area (DFO-FHM) received the Land Use Permit Application, Nunavur Impact Review Board (NIRB) File # 00EN061, M neral Exploration, Nowyak Lake, Phelps Dodge Corp. of Canada Ltd.

Under the Nunavut Land Claims A reement, DFO-FHM is participating in a NIRB screening by providing spec alist information and/or advice. DFO-FHM's assessment takes into consideration fish and fish habitat related concerns only.

Any concerns, comments or mitigation measures that DFO-FHM feels are pertinent to the above mentioned poject are outlined in the following letter of advice, addressed to the proponent and should also be considered specialist information and/or advice for the purposes of a NIRB screening.

If you have any questions, feel free to contact me at (867) 669-4744 or Pete Cott 669-4913 or by fax at (867) 669-491.

Lyndon Kivi Habitat Biologist Fish Habitat Management

Department of Fisheries and Ocean - NWT Area

Canadä

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Fisheries and Oceans Pēches et Océans

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

Your file Vane reference

Durfile News reference 00-HCAA-CA6-000-000003

17 January, 2000

Ryan Cooke 223-530 Century St. Winnipeg, MB R3H 0Y4

RE: Land Use Application NIRB# 00EN061, Water Permit Application NWB2PHE00, Mineral Exploration, Nowyak Lake Area.

Dear Mr. Cooke:

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

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

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

Canada

- Winter lake/stream crossings should be located to minimize approach grades. Cutting or filling of crossing approaches below the normal high water mark will not be permitted unless approved by DFO-FHM.
- The use of material other than ite or snow to construct a temporary crossing over any ice-covered watercourse is prohibited by regulations under Fisheries Act unless authorized by a Fishery Officer.
- All winter crossings should be removed prior to spring breakup.
- No material should be left on the ice when there is the potential for that material to enter the water (i.e. spring break-up).

Depositing deleterious substances into fish bearing waters is prohibited as stated under Section \$6(3) of the Fisheries Act. The following are additional measures to mitigate habitat disturbance or loss as well as the deposition of delegations substances.

- Sediment and erosion control measures should be implemented frior to, and maintained during the construction place, to prevent entry of sediment into the water,
- All activities, including maintenance procedures and vehicular refuelling, should be controlled to prevent the entry of petroleum products, debris, slash, rubble, concrete or other deleterious substances into the water.
- All, wastes, drill cuttings, sewage containments and fuel caches should be located a minimum of thirty (30) metres from the normal high water mark of any water body, and be sufficiently bermed or otherwise contained to ensure that these substances do not enter any water body.
- Drill cuttings should be disposed of in a sump such that they do not enter any water body. The use of biodegradable, salt free drill additives is encouraged over nonbiodegradable types.
- All spills of oil, fuel, or other deleterious material should be reported immediately to the 24-Hour Spill Line at (867) 920-8130.

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

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

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

T-800 P.43/57 F-26 T-173 P.006/011 F-31

Please note that this letter of advice does not release the proponent of the responsibility for obtaining any other permits that may be required.

This Letter of Advice will apply for the proposed activities for the period of the Land Use Permit and water licence, if issued.

If you have any questions concerning the mitigation measures or should there be any changes to the proposed work, please contact me at (867) 669-4741 or Pete Cott at 669-4913 or by fax at (867) 669-4941.

13

Lyndon Kivi
Habitat Biologist
Fish Habitat Management
Department of Fisheries and Oceans- NWT Area

c.c. Gladys Joudrey, Nunavut Impact Review Board Rita Becker, Nunavut Water Board Julie Dahl - Arctic Habitat Co-ordinator, DFO-FHM Pete Cott - Area Habitat Biologist, DFO-FHM

Canada

to. IUIOUTTECOL

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Land Administration

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From:

Henry Kablalik

Date:

January 24, 2000

Subject:

LUP 1999Cul14 - Pheins Dodge Corp.

Pages:

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OURALISMAN,

The following is a list of suggested I and IIse Conditions for Land Use Permit N1999CU114

Should you have any questions, please do not heplate to call me at 067-645 2031, or failing that you may contact Pelet Kusugak, District Manager in to muit at 80/ >/Y-1/103.

Humy Kablalik

RMO III

Kivalliq Region

cc: Gladys Joudrey, Environmental Assessment Office Peter Kusugak, District Manager

LAND USE CONDITIONS - Lrd002

A CONDITIONS ANNEXED TO AND FORMING PART
OF LAND USE PERMIT NO. N19999C0114-Phelps Dodge Corp.

B 1.

31 (1) (a) - Location and Area

- The Permittee shall not conduct this land use operation on any lands not designated in the accepted application, unless otherwise
- 1.7 The Permittee shall remove from Territorial REMOVE Lands, all scrap metal, disquided machinery WASTE and parts, barrels and kegs, buildings and building material.
- 1.8 The Permittee shall not construct an adit or drillsite within ____ metres of the normal high water mark of a stream unless approval in writing is obtained from the Engineer.

 LOCATION
 OF
 ADITS & DRILLSITES
- 1.9 The Permittee shall locate all camps on CAMP gravel, sand or other durable land. LOCATION

aren a

PLANS

AND

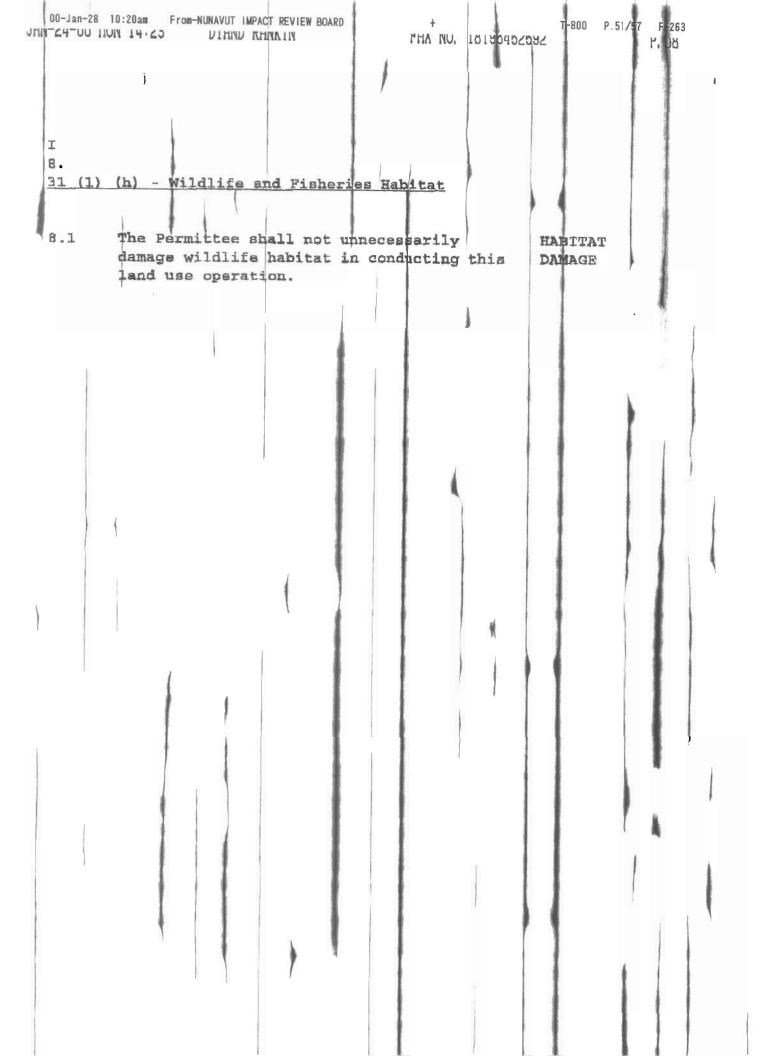
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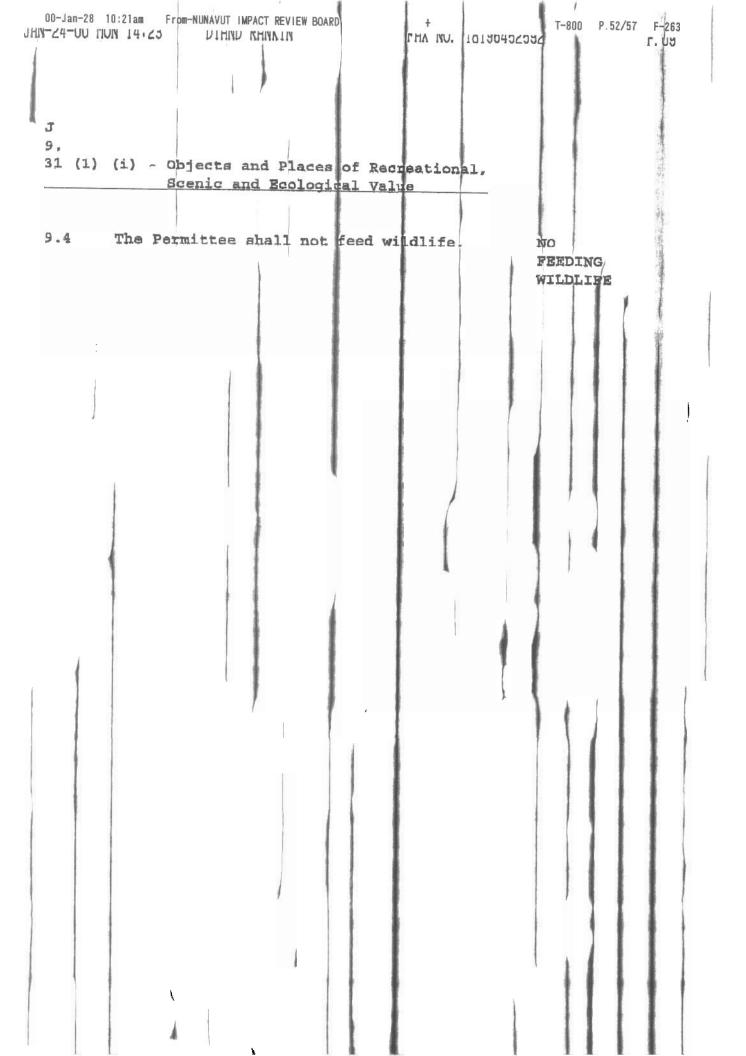
SPILLS

contained in "Spill Report" form N.W.T.

report line (867) 920-8130.

1752(05/93), Twenty four (24) hour spill





31 (1) (k) - Petroleum Fuel Storage

- 11.1 The Permittee shall report in writing to a REPORT Land Use Inspector the location and quantity FUEL of all petroleum fuel caches within ten (10) LOCATION days after the establishment.
- 11.2 The Permittee shall not place any petroleum FUEL fuel storage containers within thirty (30) BY metres of the normal high water mark of any STREAM stream.
- 11.4 The Permittee shall not allow petroleum FUEL products to spread to surrounding lands CONTAINMENT or into water bodies.
- 11.16 The Permittee shall mark all fuel contailers MARK with the Permittee's name. CONTAINERS

CARIBOU PROTECTION MEASURES
(CAMANIRJUA AND BEVERLY HERDS) 1988

1. (a) The Permittee shall not, without approval, conduct any activity between May 15 and July 15 within the Caribou Protection Areas depicted on the map certified by the Engineer as the "Caribou Protection Map" annexed to this Land Use Permit.

CARIBOU PROPERTION AVEAS

- (b) A Permittee may, upon approval by the Land
 Use Inspector, operate within the said
 Caribou Protection Areas beyond the May 15
 deadline set out in 1(a), provided that
 when monitoring information indicates
 that caribou cows are approaching the
 area of operation, the Permittee will
 implement 1(c).
- (c) On cessation of activities pursuant to 1(a) or 1(b), the Permittee will remove all personnel from the zone who are not required for the maintenance and protection of the camp facilities and equipment unless otherwise directed by the Land Use Inspector
- (d) The Permittee may commence or resume activities prior to July 15 within those parts of the Caribon Protection Areas released by the Land Use Inspector for the reason that caribon cows are not expected to use those parts for calving or post-calving (note 1).

(a) In the event that caribou cous calve outside of the Caribou Protection Areas, the Permittee shall suspend operations within the area(s) occupied by cows and/or calves between May 15 and July 15.

CARLBOU PROTECTION GENERAL

- (b) In the event that caribou c ws and calves are present the Permittee stall suspend:
 - (i) blasting,
 - (ii) overflights by aircraft at any altitude of less than 300 metres above ground level, and
 - (iii) the use of snowmobiles and ATV's (all-terrain vehicles) outside the immediate vicinity of the camp.
- 3. (a) During migration of Carribou, the Permittee shall not locate any operation so as to block or cause substantial diversion to migration.

CARLEOU PROLECTION TIGRALLION

- (b) The Permittee shall cease activities that may interfere with migration, such as airborne geophysics surveys or movement of equipment, until the migrating caribon hav passed.
- (a) The Permittee shall not, between May 15 and ;
 September 1, construct any camp, cache any
 fuel or conduct any blasting within 10 km
 of any "Designated Crossing" as cutlised
 on the map certified by the Engineer is
 the "Caribou Protection Map" and annexed
 to this Land Use Permit.

CARCIBOU CROSSING

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