



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



Enclosed is the completed NIRB Screening Decision Report on an application for a water licence amendment to conduct mineral exploration and diamond drilling at Meliadine Lake in the Kivalliq.


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

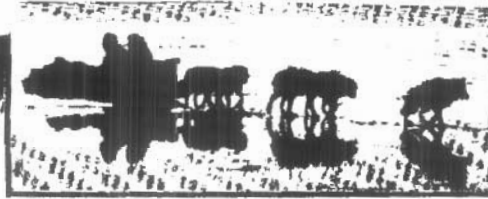
NIRB's indication to the Minister is: 12.4.4 (a) the proposal may be processed without a review under Part 5 or 6; NIRB may recommend specific terms and conditions to be attached to any approval, reflecting the primary objectives set out in Section 12.2.5;

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

Yours truly,

Gladys Joudrey
Gladys Joudrey
Environmental Assessment Officer

INTERNAL	
PC	 July 11/00
LA	
OM	
TA	
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CEO	
BRD	



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SCREENING DECISION

Date: July 10, 2000

Mr. Thomas Kudloo
Chairperson, Nunavut Water Board
Gjoa Haven, NT

Dear Mr. Kudloo:

**RE: Screening Decision of the Nunavut Impact Review Board (NIRB) on Application:
NIRB 00EA034 NWB NWB2MEL9901
Amendment to Meliadine West Gold Project – WMC International Limited**

Authority:

Section 12.4.4 of the Nunavut Land Claim Agreement states:

Upon receipt of a project proposal, NIRB shall screen the proposal and indicate to the Minister in writing that:

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

Primary Objectives:

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

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

The decision of the Board in this case is 12.4.4 (a) the proposal may be processed without a review under Part 5 or 6; NIRB may recommend specific terms and conditions to be attached to any approval, reflecting the primary objectives set out in Section 12.2.5;

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Reasons for Decision:

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

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

Terms and Conditions:

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

Drill Sites

1. The Licensee shall not conduct any land based drilling within thirty (30) metres of the normal high water mark of a water body.
2. The Licensee shall conduct any the lake-based winter drilling, in accordance with the Interim Guidelines for On-Ice drilling.
3. The Licensee shall ensure that all drill cuttings are removed from ice surfaces.
4. The Licensee shall not use drilling muds or additives in connection with drill holes unless they are recirculated or contained such that they do not enter the water, or are certified to be non-toxic.
5. The Licensee shall ensure that the release of total suspended solids in the receiving environment shall be in compliance with *Guidelines for Total Suspended Solids* contained in the *Canadian Council of Ministers for the Environment's (CCME) Canadian Water Quality Guidelines, Chapter 3 - Freshwater Aquatic Life* (i.e. 10mg/L for lakes with background level under 100mg/L, or 10% for those above 100mg/L).
6. The Licensee shall ensure that any drill cuttings and waste water that cannot be re-circulated be disposed of in a properly constructed sump or an appropriate natural depression that does not drain into a waterbody.
7. The Licensee shall ensure that drilling wastes do not enter any water body. The use of biodegradable, salt free drill additives is encouraged over non-biodegradable types.
8. The Licensee shall ensure that the sump/depression capacity is sufficient to accommodate the volume of waste water and any fines that are produced so that there will be no additional impacts.

9. The Licensee shall not locate any sump within thirty (30) metres of the normal high water mark of any water body.
10. The Licensee 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.
11. The Licensee 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.
12. The Licensee 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

13. The Licensee 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

14. The Licensee 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.
15. The Licensee 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.
16. The Licensee shall construct an impermeable dyke around each stationary fuel container or group of stationary fuel containers where one container has the capacity exceeding 4,000 litres.
17. The Licensee shall take all reasonable precautions to prevent the possibility of migration of spilled petroleum fuel or chemicals over the ground surface.
18. The Licensee shall have one extra fuel storage container on site equal to, or greater than, the size of the largest fuel container.
19. The Licensee shall examine all fuel and chemical storage containers daily for leaks. All leaks should be prepared immediately.
20. The Licensee shall seal all container outlets except the outlet currently in use.
21. The Licensee shall mark all fuel containers with the Licensee's name.
22. The Licensee shall have an approved emergency response and spill contingency plans in place prior to the commencement of the operation.
23. The Licensee 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 Licensee 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 Licensee 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 substances do not enter a waterway unless otherwise authorized.

26. The Licensee shall treat greywater and sewage according to the terms and conditions outlined in the NWB approval.
27. The Licensee shall backfill and recontour all sumps to match the natural environment prior to the expiry date of the license.
28. The Lessee shall not bury any metal wastes.
29. The Licensee shall incinerate all combustible and food wastes daily
30. The Licensee shall keep all garbage and debris in a covered metal container until disposed of.
31. The Licensee shall ensure that all wastes generated through the course of the operation are backhauled and disposed of in an approved dumpsite.
32. The Licensee shall deposit all scrap metal, discarded machinery and parts, barrels and kegs, at an approved disposal site.

Wildlife

33. The Licensee shall ensure that there is no damage to wildlife habitat in conducting this operation.
34. The Licensee shall not feed wildlife.
35. The Licensee use the latest bear detection and deterrent techniques to minimize man-bear interactions and shall report any Man-Bear Interactions to the nearest Renewable Resource Officer.
36. The Licensee shall not hunt or fish, unless the appropriate permits and licenses are acquired from a GN Renewable Resources Officer.
37. The Licensee shall ensure that the drill sites avoid known environmentally sensitive areas (denning, nesting etc.) by a minimum of 250 metres.
38. The Licensee shall not locate any operation so as to block or cause substantial diversion to migration of caribou.
39. The Licensee shall follow the Caribou protection measures attached.
40. The Licensee 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.
41. The Licensee shall ensure that aircraft pilots adhere to recommended flight altitudes of greater than 300 m above ground level as to not disturb wildlife. Raptor nesting sites and concentrations of nesting or molting waterfowl should be avoided by aircraft at all times.
42. The Licensee shall ensure compliance with Section 36 of the Fisheries Act which requires that no person shall deposit or permit the deposit of a deleterious substance on any type in water frequented by fish or in any place under any conditions where the deleterious substance may enter such a water body.
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.

Environmental

44. The Licensee shall ensure that the land use area is kept clean and tidy at all times.
45. The Licensee shall prepare the site in such a manner as to prevent rutting of the ground surface.

46. The Licensee shall prepare the site in such a manner as to prevent damage to the ground surface. Wooden walkways are to be used to minimize erosion between tents and the camp.
47. The Licensee shall be required to undertake any corrective measures in the event of any damage to the land or water as a result of the Licensee's operation.
48. The Licensee shall not remove any material from below the ordinary high water mark of any waterbody..
49. The Licensee shall suspend overland travel of equipment or vehicles if rutting occurs.

Structure & Storage Facilities

50. The Licensee shall not erect structures or store material on the surface ice of lakes or streams.
51. The Licensee shall locate all structures and storage facilities on gravel, sand or other durable land.
52. The Licensee shall follow the Camp Sanitation Regulations made under the authority of the Public Act of the Northwest Territories.

Archaeological Sites

53. The Licensee 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.

Attachments

54. The Licensee shall follow the comments and recommendations provide by the Environmental Protection Branch and the letter addressed to the proponent from the Department of Fisheries and oceans

Reclamation

55. The Licensee shall remove all scrap metal, discarded machinery and parts, barrels and kegs, buildings and building material upon abandonment.
56. The Licensee shall complete all clean-up and restoration of the lands used prior to the expiry date of the permit.
57. The Licensee shall undertake ongoing restoration for any land or improvements which are no longer required for the Licensee's operation on the land.
58. The Licensee shall plug or cap all bore holes and cut off any drill casings that remain above ground to ground level upon abandonment of the operation.

Monitoring

59. The Licensee shall monitor the impacts to wildlife by maintaining a log of wildlife observed (species, number, date, time, location observed) and their behavior (i.e. avoidance, segregation, disturbance/stress, alteration of migration patterns or movements by wildlife).
60. The Licensee shall submit to the NWB and NIRB a summary report of activities undertaken and any abandonment and restoration of the site.

Other Recommendations

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

Validity of Land Claims Agreement**Section 2.12.2**

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

Dated July 7/00 at Cambridge Bay, NT


Larry Pokok Aknavigak, Chairperson

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NUNAVUT IMPACT REVIEW BOARD SCREENING FORM

1. General File Information on Screening

NIRB #: 005A034
(VT-KXX)

Authorizing Agency #(s): NUB2MEL99101
permit or licence #

Project Title: Amendment to Meliadin West Project.
Title of Project

Proponent: WVIC International Limited.

Proponent's Address: 22 Gurdwara Road.
Nepean, Ontario
K2E 6A2

Contractor: _____

 Company / persons doing the work if different from the proponent

 address and contact numbers

Proposed Dates of Activity: Start Date June 1/00 End Date Feb 27/01
(yyyy-mm-dd) (yyyy-mm-dd)

EA Starting Date: May 26/00
Date application accepted (yyyy-mm-dd)

Date Application Referred for Comments: June 2, 2000
(yyyy-mm-dd)

Deadline for Comments: June 21, 2000
(yyy-mm-dd)

NIRB's EA Indication: 12.4.4 (N)

Date of Indication: July 7, 2000
(yy-mm-dd)

Project Cancelled: Yes, Give Reason _____

Comments: _____

2. Authorizing Agencies

Authorizing Agency(ies) Kivalliq I.A., Kitikmeot I.A., QIA, NWB, NWMB, DIAND, DFO, DOE, NRI, RWED, Other: _____

Authorizing Agency Contact Person: Rita Becker
(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: _____
(e.g. water licence, land use permit, quarry permit, lease, reserve)

Present Authorizations (active): NWB/MI
(file number)

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

3. Project Location

Kivalliq ☒ Kitikmeot _____ Baffin _____

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

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

Local/Traditional Name: _____

National Topographic Sheet (NTS) Number: 55T, K, 11, D Scale: 1:250,000

Latitude/Longitude: 63° 01' 30", 92° 10' 20"
(degrees, minutes seconds)

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

Nearest Settlement: Rankin Inlet

Adjacent Settlement/Out-post camps: _____

Special Designation: _____
(Yes/No—e.g. Heritage River, Wildlife Reseserve, 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): Drilling, Camp
(drilling, construction, camp, research, water works, installation, modification, maintenance)

Multiple Activities: Yes ☒ No ☐

Project Category Code: Point ☐ Multiple Points ☐ Linear ☐ Area ☒

Phase of Project: Exploration
(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.

2000-May-26 16:58 From-NWB

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T-036 P.002/003 F-376

05/28/00 11:23 FAX 613 727 3970

WMC INT'L

002/003

Executive Summary

The main exploration activity during 2000 on the Meliadine West Project gold exploration program will consist of a diamond drilling program of approximately 20,000 metres. In addition, four mineral claims will have boundary surveys completed which is required to bring these claims to mineral leases. This work will commence in the late May to early June period.

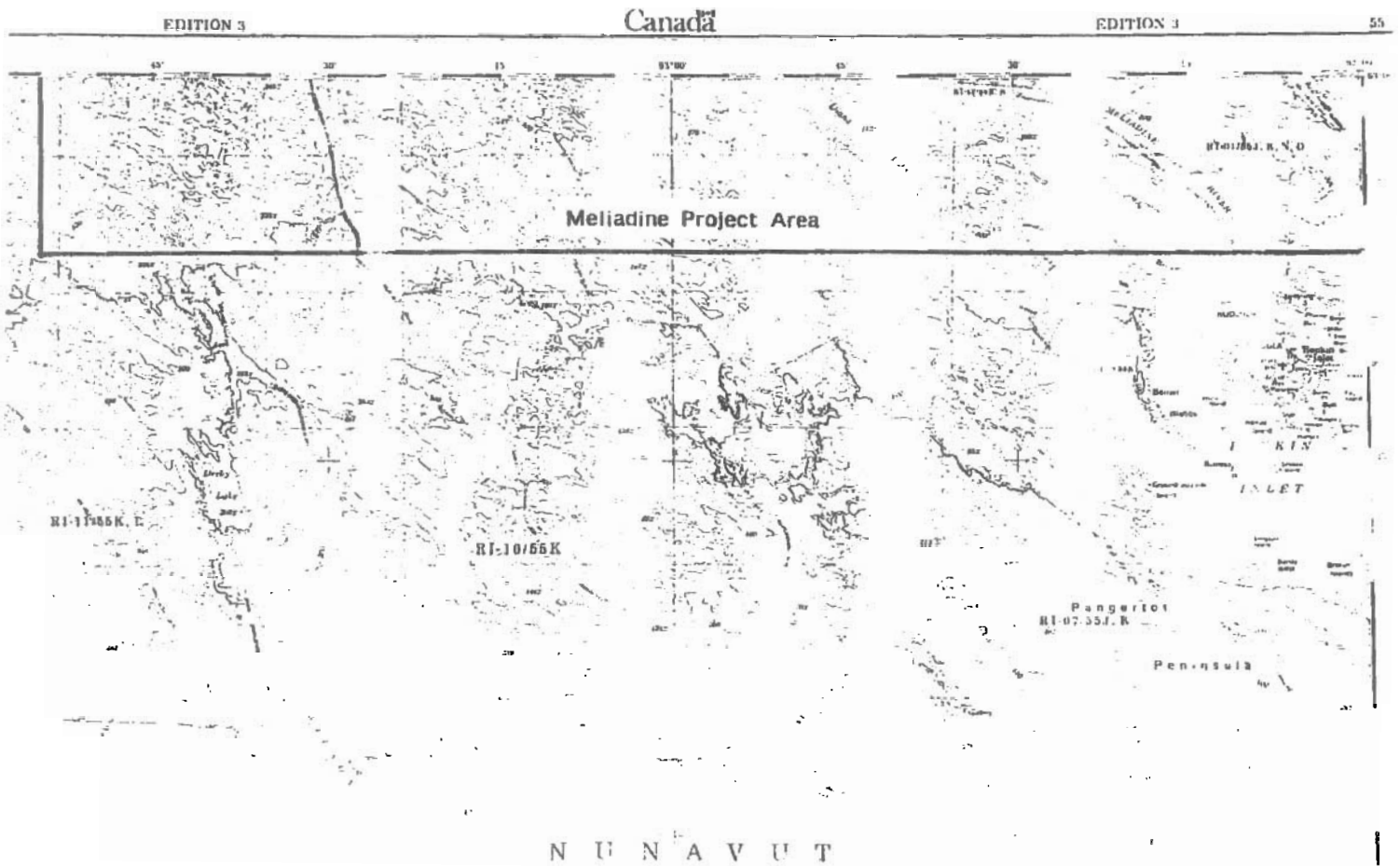
Environmental baseline studies will continue with focus on water, fish and wildlife studies. This work will commence in mid-May.

Continued monitoring and documentation of the rehabilitation of all diamond drilling sites completed by WMC during 1995-1999. This work will commence in mid-June.

A total of up to 55 people will be completing this work program out of the Meliadine Lake camp during the mid-May to late September period.

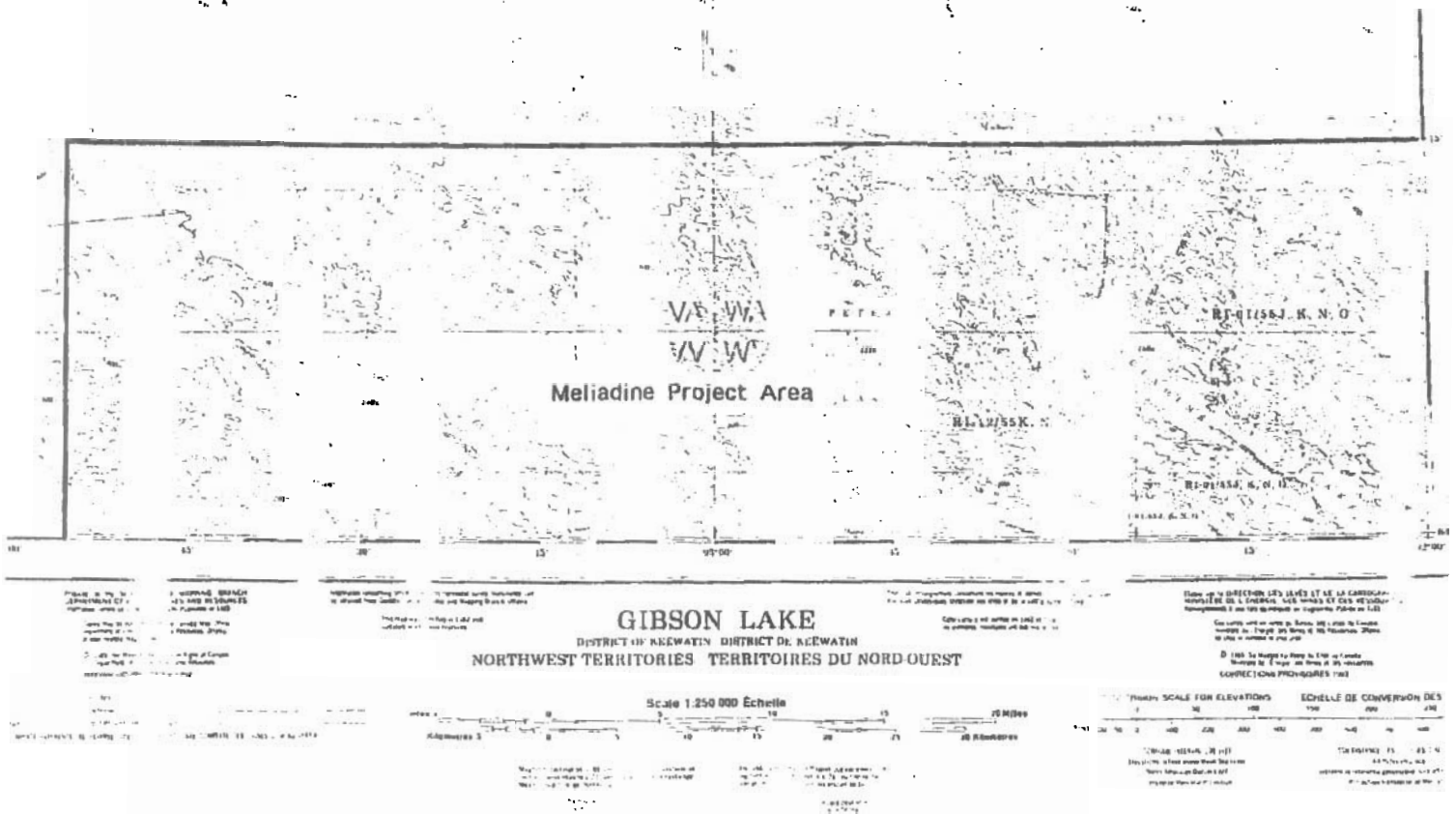
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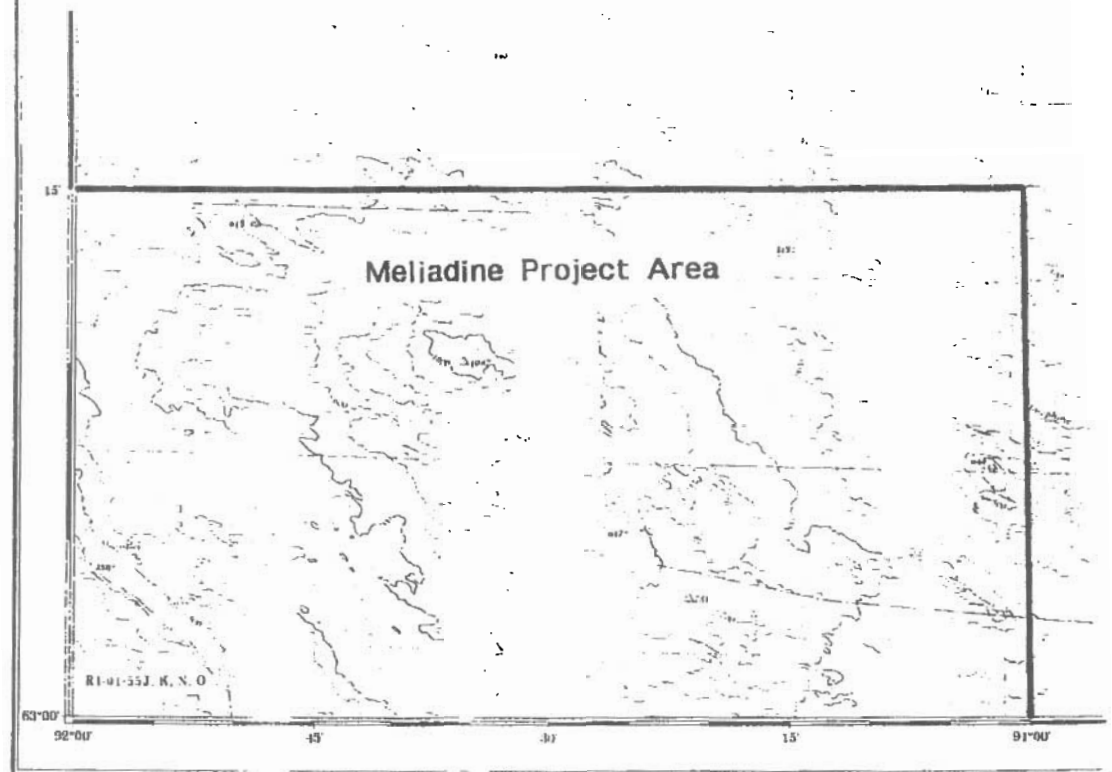


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Contours - based on 1:50,000 scale and horizontal control
verticals - as in 1:50,000 scale from Canadian Survey, Canada Centre
Surveying Station

CHESTERFIELD
DISTRICT OF KEEWATIN DISTRICT
NORTHWEST TERRITORIES TERRITORY

Roads:
Cattle tracks:
Track, cut and/or passage:
FOR COMPLETE REFERENCE SEE REVERSE SIDE FOR THE 1:50,000 COMPLETE SET SHEETS WITH NO. 14850

Scale 1:250,000 Échelle
Miles 0 5 10 15
Kilometres 0 5 10 15

THIS MAGNETIC COMPASS MAP IS ERRATIC IN THIS AREA.
Magnetic declination 1985 values from 1°18' westerly at center of
sheet edge to 11°27' westerly at corner 2 (1000 ft) edge. Mean annual
change - increasing 2.5'

LA 80053
En 1985, la
déclinaison
magnétique

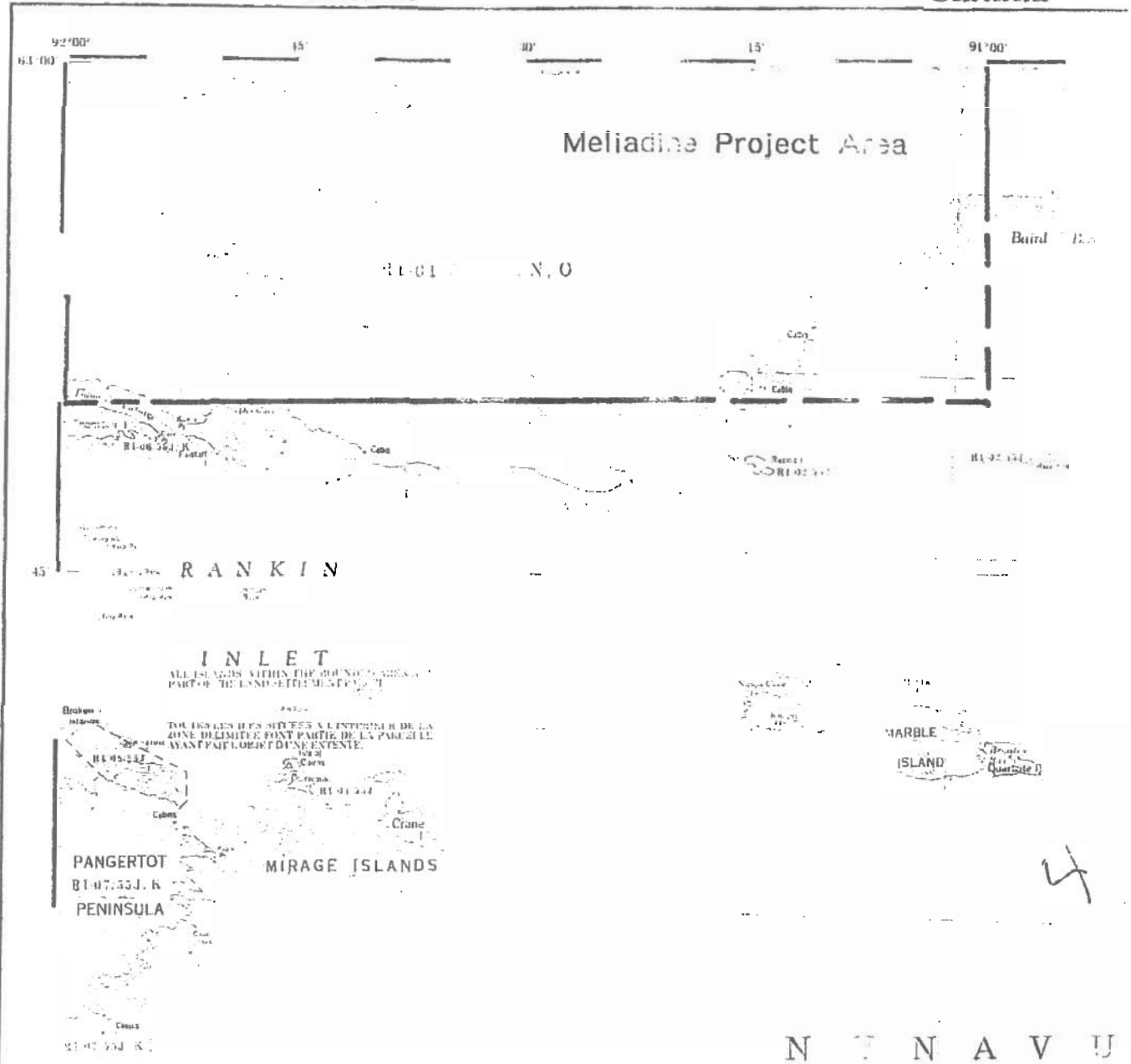
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EDITION 3

Canada



6. Description of the Environment

Description of Biophysical Environment

Wolves and foxes den along eskers in area.

Caribou are occasionally seen throughout area.

Description of Socio-Economic and Cultural Environment

This area contains several base camps from which winter caribou hunts are organized. Some trapping is also done in this area and wolves are hunted as encountered. Many lakes are fished in spring and fall.

7. NIRB's Consultation Process

Date application referred for comments:

June 21, 2000
(yyy-mm-dd)

Deadline for comments:

June 21, 2000
(yyy-mm-dd)

Distribution List:

Contact Person:

Date comments received:

NUNAVUT:

☐ NTI
☐ QIA
☐ Kivalliq I.A.
☐ Kitikmeot I.A.
☐ NPC
☐ NWB
☐ NWMB
☐ RWO
☐ Inuit Heritage Trust
☐ Community(s)
☐ Hamler
☐ HTO
☐ Other?

FEDERAL:

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

Katherine Silcock
Trishon DeGroot
Anne Wilson

Rich McLean

June 21 100
June 21 100
June 21 100

June 12 100

GOVERNMENT OF NUNAVUT:

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

Robyn Abernethy Gillis

June 21 100

**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
 - ☒ water
 - ☐ construction
 - ☐ abandonment/removal
 - ☐ modification e.g., widening
- ☒ air, mobile, aircraft or vessel movement
 - ☐ blasting
 - ☒ burning
 - ☒ channelling
 - ☐ construction
 - ☐ building
 - ☐ shed, warehouse
 - ☐ landing strip
 - ☐ cut and fill
 - ☐ removal of vegetation
- ☒ dams and impoundments *swamps*
 - ☒ construction
 - ☐ abandonment/removal
 - ☐ modification
- ☐ ditch construction
- ☐ drainage alteration
- ☐ drilling other than geoscientific
- ☒ ecological surveys
- ☐ excavation
- ☐ explosive storage
- ☒ fuel storage
- ☒ garbage
 - ☐ disposal of hazardous waste
 - ☒ disposal of sewage or grey water
 - ☒ disposal of solid waste
- ☒ geoscientific sampling
 - ☐ trenching
 - ☒ diamond drill
 - ☐ borehole core sampling
 - ☐ bulk soil sampling
- ☐ quarry
- ☒ hydrological testing
- ☐ over stream/lake crossing/bridging
- ☒ site restoration
 - ☐ fertilization
 - ☐ grubbing
 - ☒ planting/seeding
 - ☐ scarification
 - ☐ spraying
 - ☐ recontouring
- ☐ soil testing
- ☐ topsoil, overburden or soil
 - ☐ fill
 - ☐ disposal
 - ☐ removal
 - ☐ storage
- ☐ tunnelling, underground
- ☒ other, explain *camp*
- ☐ possibility for accidents or malfunctions. Describe.

effects of environment on project (e.g., flooding).
Describe.

Project Effects

(Check all the items appropriate to this project)

Directly-related Socio-Economic & Cultural Effects:

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

Biophysical Environment Effects

15. ☐ deposit into surface or ground water
16. ☐ deposit to marine environment
17. ☐ change in surface or ground water flow
18. ☐ change in water temperature
19. ☐ change in drainage pattern
20. ☐ change in air quality
21. ☐ change in air flow
22. ☐ micro-climate change
23. ☐ ice fog
24. ☒ change in ambient noise level
25. ☒ deposit onto ground surface
26. ☐ change in slope stability
27. ☐ change in soil structure
28. ☐ alteration of permafrost regime
29. ☒ destabilization/erosion
30. ☒ soil compaction
31. ☐ change in access to renewable resources
32. ☐ depletion of non-renewable resource
33. ☐ removal of rare/endangered plant species
34. ☐ introduction of species
35. ☐ toxin, heavy metal accumulation
36. ☐ removal of rare/endangered wildlife species
37. ☐ change in wildlife health
38. ☒ impact to large mammals
39. ☐ impact to small mammals
40. ☒ impact to fish
41. ☒ impact to birds
42. ☐ impact to other wildlife
43. ☐ impact in a calving, nesting, staging or spawning area
44. ☐ removal of wildlife buffer zone
45. ☐ change in wildlife habitat/ecosystem
46. ☐ other, explain

9. **Cumulative Effects: Identification of Other Resources Used in the Area.** Identify past, current and future (pending applications) physical works and activities in the area (for the proponent, other proponents and nearby communities) and their potential adverse environmental effects.

Other Resource Uses

✓ check all the items appropriate to this project

- ✓ harvesting
 - marine mammals
 - ✓ land mammals
 - ✓ fur bearers
 - birds
 - shellfish
 - plants
 - berries
 - ✓ fish
- ✓ mining
 - ✓ exploration
 - open pits
 - underground
 - off-shore
 - mineral processing
 - industry _____ (type)
 - ✓ quarries
 - carving stone
 - aggregate
 - transportation/communications
 - airport / landing strip
 - ✓ roads, access routes *winter*
 - 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
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 _____

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.

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 ~~APQ~~ **NIRR**
- ☒ 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)

Any significant environmental effects caused by the project proposal should be mitigable with known technology and best practice techniques and the terms and conditions contained in the screening decision report.

Prepared By: Wendy Joudrey Date: June 22, 2000
Screened: (j777-mm-2d)**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 12.2.3;
- ☐ 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:

2000/07/07

(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?

JUN 12 '00 16:02 FR MF. IE PROGRAMS

519 383 1989 TO 9

T-206 P.27/44 F-870
79832574 P.02/03

To: <u>LAUREN JOURNEY</u>	From: <u>KIRK McLEOD</u>
Co./Dept: <u>E.A.O.</u>	Co.: <u>ICG-NWP</u>
Phone #	Phone #
Fax # <u>867-983-2574</u>	Fax # <u>519-383-1989</u>

JUN 06 2000

NAVIGABLE
PROGRAMS

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 Meladine West Project
 Proponent: WMC International
 Location: Meladine Lake, Kivalliq NIRB#: 00EA034
 Comments Due By: June 21, 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:

Navigable Waters Protection
 Sarnia, Ontario
NO INTEREST
 Date: June 12/00 PM

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: _____

CARIBOU PROTECTION MEASURES
(QAMANIRJUAQ AND BEVERLY HERDS) 1988

CARIBOU
PROTECTION
AREAS

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.
- (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 Caribou Protection Areas released by the Land Use Inspector for the reason that caribou cows are not expected to use those parts for calving or post-calving (note 1).

- 2 -

2. (a) In the event that caribou cows 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. CARIBOU PROTECTION GENERAL
- (b) In the event that caribou cows and calves are present the Permittee shall 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 Caribou, the Permittee shall not locate any operation so as to block or cause substantial diversion to migration. CARIBOU PROTECTION MIGRATION
- (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.
4. (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 outlined on the map certified by the Engineer as the "Caribou Protection Map" and annexed to this Land Use Permit. CARIBOU CROSSING

.../3

06 10:23

TS40388. 13

LAND REVIEW

T-206 P.30/44 F-870

- 3 -

- (b) The Permittee shall not, between May 15 and September 1, conduct any diamond drilling operation within 5 km of any "Designated Crossing" as outlined on the map certified by the Engineer as the "Caribou Protection Map" and annexed to this Land Use Permit.

NOTE

1. The Land Use Inspector's decision will be based on the existing caribou information.
2. Concentrations of caribou should be avoided by low level aircraft at all times.

JUN-21-2000 WED 04:40 PM

+ T-206 P. 31/44 F-870
FAX NO. 8 79848087 P. 10Fisheries
and OceansPêches
et OcéansFish Habitat Management
P.O. Box 358
Iqaluit, Nunavut
X9A 0H0

Your file Votre référence

00EA034

Our file Notre référence

NU00042

June 19th, 2000

Alan Sexton
WMC International Inc.
22 Gurdwara Road
Napean, Ontario
K2E 8A2**RE: NIRB File # 00EA34, Water Licence Application, Mineral Exploration, WMC International, Meliadine Lake Area.**

Dear Mr. Sexton:

This letter is to advise that The Department of Fisheries and Oceans, Fish Habitat Management (DFO-FHIM) received your Water Use Application for mineral exploration, in the Meliadine Lake area, submitted on your behalf by Nunavut Impact Review 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 measures, 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.
- If artesian flow is encountered, drill holes should be plugged and permanently sealed upon completion of the project.
- When using explosives, please follow the *Guidelines 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 drawn down please submit details (volume required, size of waterbody, etc.) to DFO-FHM for review. DFO-FHM does not recommend the use of streams as a water source.
- All water intakes should be properly screened to prevent the entrainment of fish. Refer to the *Freshwater Intake End-of-Pipe Fish Screen Guideline* (DFO 1995), available on request.

- Winter lake/stream crossings should be located to minimize approach grades. Cutting or filling of crossing approaches below the normal high water mark will require prior review and approval by DFO-FHM.
- The use of material other than ice 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 Subsection 36(3) of the *Fisheries Act*. The following are additional measures to mitigate habitat disturbance or loss as well as the deposition of deleterious substances.

- Sediment and erosion control measures should be implemented prior to, and maintained during the work to prevent entry of sand or 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, 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 non-biodegradable 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 out 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.

JUN-21-2000 WED 04:41 PM c.c./

+
FAX NO. 9 79848067 T-207 P.33/44 F-870
P. 12

Please note that this letter of advice does not release the proponent of the responsibility for obtaining any other permits that may be required and will apply for the proposed activities for the period of the Water Licence.

If you have any questions concerning the mitigation measures or should there be any changes to the proposed work, please contact me at (867) 979-8007 or Pete Cott at 669-4913 or by fax at (867) 979-8039.

Jordan DeGroot
Area Habitat Biologist
Fish Habitat Management
Department of Fisheries and Oceans- Eastern Arctic Area

c.c. Gladys Joudrey, Nunavut Impact Review Board
Pete Cott - A/Arctic Habitat Co-ordinator, DFO-FHM
Winston Fillatre - A/C&P Supervisor/Fishery Officer

Northern Division
Environmental Protection Branch
Prairie and Northern Region
#301 - 5204 - 50th Ave
Yellowknife, NT X1A 1E2
Ph. (867) 669-4735

June 21, 2000

Our File:

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

By Facsimile: (867) 983-2594

Re: NIRB File No. 00EA034 - WMC International - Amendment to Meliadine West Project

I have reviewed the above document on behalf of the Environmental Protection Branch, Environment Canada (EPB) and offer the following comments for your consideration. It is felt that standard licence conditions will provide adequate mitigation for this project.

Comments and Recommendations

1. The applicant shall ensure that any drill cuttings, chemicals, fuel or wastes associated with the proposed project do not enter waters frequented by fish. All sumps, spill basins and fuel caches should be located a minimum of thirty (30) meters from the normal high water mark of any such waterbody.
2. EC encourages exploration companies, when storing barreled fuel at a location, to use a secondary container rather than relying on "natural depressions". There are self supporting instant berms now available from various suppliers within Canada and if these "insta-berms" are used properly it will virtually eliminate the possibility of ever having to deal with petroleum contaminated soils.
3. For lake-based winter drilling, the Interim Guidelines for On-Ice drilling will apply. Return water released to the lake must be non-toxic, and not result in an increase in total suspended solids in the immediate receiving waters of the lake above Canadian Council of Ministers for the Environment Guidelines for the Protection of Freshwater Aquatic Life (i.e. 10 mg/L for lakes with background levels under 100 mg/L, or 10% for those above 100 mg/L).
4. Drilling additives or mud shall not be used in connection with holes drilled through the lake ice unless they are recirculated or contained such that they do not enter the water, or demonstrated to be non-toxic.

5. With respect to access road construction, pad construction or other earthworks, 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 fashion that they do not enter the water.
6. If artesian flow is encountered, drill holes shall be plugged and permanently sealed upon project termination.
7. The permittee shall not erect camps or store material on the surface ice of streams or lakes.

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)

06-12-00 14:40 KIA Land, Air.
00-Jul-00 08:53am From-NUNAVUT IMPACT REVIEW BOARD

ID=86

53855

P02/02

T-534

P.03/29

F-560

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 Meliadine West Project
 Proponent: WMO International
 Location: Meliadine Lake, Kivalliq, NIRB
 Comments Due By: June 21, 2000

Indicate your concerns about the project proposal below:

- | | |
|---|---|
| <input type="checkbox"/> no concerns | <input type="checkbox"/> traditional uses of land |
| <input checked="" 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:

STRICT WATER MONITORING

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: Lois Plante of KIVALLIQ INUIT ASSOCIATION
 Position: CEO
 Signature: [Signature] Date: June 16, 2000

JUN-21-00 13:26 From:DIAND WATER RESOURCES

1-867-669-

T-627 P.01/01 Job-422

00-Jun-08 12:08pm From:NUNAVUT IMPACT REVIEW BOARD

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 Meladine West Project
 Proponent: WMC International
 Location: Meladine Lake, Kivalliq, NUNAVUT NIRE#: 00EA034
 Comments Due By: June 21, 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:

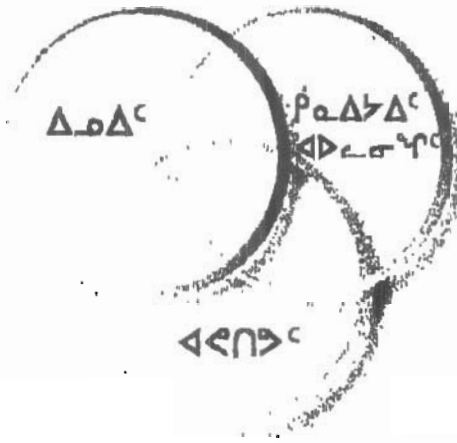
Do you have any suggestions or recommendations for this application?

Do you support the project proposal? YES ☒ NO ☐

Any additional comments?

Any potential water related concerns can be covered by the previous licence as long as all existing provisions are met ~~by~~ in the expanded area.

Name of person commenting: Katherine Silcock of DIAND
 Position: Project Specialist Organization: Water Resources
 Signature: [Signature] Date: July 21/2000



**Department of Sustainable
Development
Nunavut**

Chris Nichols
Manager, C.E.A.&C.I.
 Fax: (867) 975-5980
 Phone: (867) 975-5911

To: Gladys Joudrey - NIRB

Fax: (867) 983-2574

Date: 06/21/00

Re: Amendment to Meliadine West Project

CC:

Pages: 35

Note: Chris Nichols is currently out of town and was only replaced as of today. Unfortunately; since I just received your comments and recommendations package, I wasn't able to gain input from the Kivalliq and Headquarters Distribution List. Our Chief of Environmental Protection, Earle Baddaloo, did in fact review your package and saw it fit under the standard environmental recommendations.

Robyn Abernethy-Gillis
Environmental Assessment Assistant

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Facsimile Transmittal

The information contained in this transmittal is private and legally protected by law. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution, or taking of any action in reference to the contents of this telecopied information is strictly prohibited. If you receive this communication in error, please notify us immediately by

DEPARTMENT OF SUSTAINABLE DEVELOPMENT

ENVIRONMENTAL PROTECTION DIVISION

STANDARD RECOMMENDATIONS FOR LAND USE APPLICATIONS

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.

Department of Sustainable Development, Environmental Protection Division, Government of Nunavut

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 further details.

Acts, Regulations and Environmental Guidelines

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

Department of Sustainable Development, Environmental Protection Division, Government of Nunavut

Acts and Regulations

Environmental Protection Act

Environmental Protection Act; Simplified Summary

Environmental Rights Act

Spill Planning and Reporting Regulations

A Guide to Spill Contingency Planning & Reporting

Asphalt Paving Industry Emission Regulations

Pesticide Act

Pesticide Regulations

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

Environmental Guidelines

Dust Suppression

General Management of Hazardous Waste

Industrial Projects on Commissioner's Lands

Industrial Waste Discharges

Ozone Depleting Substances

Site Remediation

Sulphur Dioxide & Suspended Particulates

Waste Antifreeze

Waste Asbestos

Environmental Guidelines, cont.

Waste Batteries

Waste Paint

Waste Solvents

T-208 P. 44/44 F-870

Jul-07-00 02:17pm From-Culture .guage, Elders & Youth Iqaluit +8678755504

T-574 P 02/03 F-853



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Department of
Culture, Language, Elders & Youth

Pichahilikioni

Ministère du gouvernement
Culture Langues, Aînés et Jeunesse

July 7, 2000

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

Re: Land Use Application NLRB 00EA034; Meliadine West Project (WMC International)

Due Date: June 21, 2000

Dear Ms. Joudrey:

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

We recommend approval of the above-cited research application, on the condition that the proponent's activities avoid the known archaeological sites listed in Attachment #1. The proposed study location falls within a very high-density area for registered archaeological sites. The information contained in Attachment #1 is provided solely for the purpose of the proponent's land use activities as described in the land use application, and must otherwise be treated confidentially by the proponent.

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

Sincerely,

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

Encl.