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July 5, 2001

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



Re: **Exploration Drilling at Jackson Inlet – Twin Mining Corp.**
NIRB: 01WN080 NWB: NWB2JAC

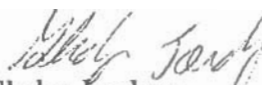
Enclosed is the completed NIRB Screening Decision Report on a water license for water use and waste disposal associated with exploration drilling at Jackson Inlet.

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

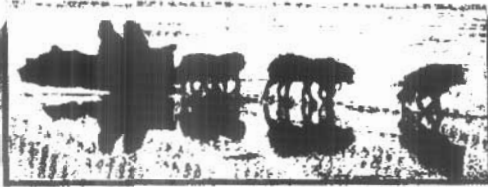
NIRB's indication to the Minister is: 12.4.4 (a) the proposal may be processed without a review under Part 5 or 6; NIRB may recommend specific terms and conditions to be attached to any approval, reflecting the primary objectives set out in Section 12.2.5;

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

Yours truly,


Gladys Joudrey
Environmental Assessment Officer

| INTERNAL | |
|----------|--|
| PC | |
| LA | |
| OM | |
| TA | |
| BS | |
| ED | |
| CEO | |
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SCREENING DECISION

Date: July 5, 2001

**Mr. Thomas Kudloo
Chairperson, Nunavut Water Board
Gjoa Haven, NU**

Dear Mr. Kudloo:

**RE: Screening Decision of the Nunavut Impact Review Board (NIRB) on Application:
NIRB 01WN080 NWB NWB2JAC
Exploration Drilling at Jackson Inlet – Twin Mining Corp.**

Authority:

Section 12.4.4 of the Nunavut Land Claim Agreement states:

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

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

Primary Objectives:

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

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

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

Reasons for Decision:

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

- storage and disposal of chemicals, fuel, garbage, sewage, and gray water, and impact of these on the ecosystem;
- the impact of noise from helicopter and exploration 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 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-one (31) metres of the normal high water mark of a water body.
2. 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.
3. 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.
4. 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.
5. 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.
6. The Licensee shall not locate any sump within thirty-one (31) metres of the normal high water mark of any water body.
7. 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.
8. 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.

Fuel Storage

9. 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.
10. 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.
11. 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.
12. The Licensee shall take all reasonable precautions to prevent the possibility of migration of spilled petroleum fuel or chemicals over the ground surface.
13. The Licensee shall examine all fuel and chemical storage containers daily for leaks. All leaks should be prepared immediately.
14. The Licensee shall seal all container outlets except the outlet currently in use.
15. The Licensee shall mark all fuel containers with the Licensee's name.
16. The Licensee shall have an approved emergency response and spill contingency plans in place prior to the commencement of the operation.
17. 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.

Water

18. 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.

Waste Disposal

19. 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.
20. The Licensee shall not locate any sumps or areas designated for waste disposal within thirty-one (31) 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.
21. The Licensee shall treat greywater and sewage according to the terms and conditions outlined in the NWB approval.
22. The Licensee shall backfill and recontour all sumps to match the natural environment prior to the expiry date of the license.
23. The Licensee shall incinerate all combustible and food wastes daily.
24. The Licensee shall keep all garbage and debris in a covered metal container until disposed of.
25. The Licensee shall ensure that all wastes generated through the course of the operation are backhauled and disposed of in an approved dumpsite.

Wildlife

26. The Licensee shall ensure that there is no damage to wildlife habitat in conducting this operation.
27. The Licensee shall not feed wildlife.
28. The Licensee shall not hunt or fish, unless the appropriate permits and licenses are acquired from a GN Renewable Resources Officer.
29. The Licensee shall make every effort to prevent the unintentional harassment of polar bears, Peary caribou, muskox and nesting or molting waterfowl at all times. It is an offense under the Wildlife Act to harass wildlife.
30. 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.
31. 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.
32. 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

33. The Licensee shall ensure that the land use area is kept clean and tidy at all times.
34. The Licensee shall prepare the site in such a manner as to prevent rutting of the ground surface.
35. 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.
36. The Licensee shall suspend overland travel of equipment or vehicles if rutting occurs.

Camp

37. The Licensee shall not erect structures or store material on the surface ice of lakes or streams.
38. The Licensee shall locate all structures and storage facilities on gravel, sand or other durable land.

Archaeological Sites

39. 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.

JUL-06-01 FRI 02:12 PM CHIEF JORNER NUNAVUT

FAX:867 896 960.

PAGE 4

2001-Jul-06 09:10am From-NUNAVUTIMPACT REVIEW BOARD

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Reclamation

40. The Licensee shall remove all scrap metal, discarded machinery and parts, barrels and kegs, buildings and building material upon abandonment.
41. The Licensee shall complete all clean-up and restoration of the lands used prior to the expiry date of the permit.

Other Recommendations

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

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 06/01 at Whale Cove, NU

Elizabeth Copland
Elizabeth Copland, A/Chairperson

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: New
(e.g. new, renewal, amendment, cancellation)

Other required approvals, permits or licences: land use permit
(e.g. water licence, land use permit, quarry permit, lease, reserve)

Present Authorizations (active): N200000048
(file number)

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

3. Project Location

Kivalliq _____ Kitikmeot _____ Baffin ☒

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

Geographic Place Name: Jackson Inlet
(nearest place name or geographic feature)

Local/Traditional Name: _____

National Topographic Sheet (NTS) Number: 5560 Scale: 1:50,000

Latitude/Longitude: 73° 14' 45" N, 86° 16' 07" W
(degrees, minutes seconds)

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

Nearest Settlement: Arctic Bay

Adjacent Settlement/Out-post camps: _____

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

Does the project have Nunavut transboundary implications? Yes _____ No ☒

If yes, what additional procedures/contacts are needed? _____

4. Project Description and Assessment

Physical Work, Activity(ies): 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: operations
 (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**

a town meeting was held on May 15th in
Arctic Bay NTO and Wildlife Officers were
approached independently

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.

6. Description of the Environment

Description of Biophysical Environment

Small numbers of barren-ground caribou may be found on occasion along the west coast of Rodeur Peninsula.

Description of Socio-Economic and Cultural Environment

Inuit from Arctic Bay hunt caribou along the western Rodeur Peninsula, especially south of McBean Bay. Moking ducks are also taken along the coast.

7. NIRB's Consultation Process

Date application referred for comments:

June 13, 2001

(yyyy-mm-dd)

Deadline for comments:

June 26, 2001

(yyyy-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
☐ Hamlet
☐ Hamlet
☐ HTO
☐ HTO

FEDERAL:

☐ DIAND-Nunavut
☐ DIAND-Water
☐ DFO
☐ DOE
☐ Natural Resources
☒ CCG

Bosley PittJune 26/01**GOVERNMENT OF NUNAVUT:**

☐ DSD
☐ CG&T
☐ HSS
☒ CLEY
☐ Other?

Doug StantonJune 22/01**TRANSBOUNDARY
PARTIES****OTHER PARTIES**

Identification of Project Activities and Environmental Effects

Identify all activities of the project under screening and their potential adverse environmental effects.

Project Activities

(✓ check all the items appropriate to this project)

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

Biophysical Environment Effects

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

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

Other Resource Uses

(✓ check all the items appropriate to this project)

- ✓ harvesting
 - marine mammals
 - ✓ land mammals
 - fur bearers
 - ✓ birds
 - shellfish
 - plants
 - berries
 - fish
- ✓ mining
 - ✓ exploration
 - open pits
 - ✓ underground
 - off-shore
- mineral processing
- industry _____ (type)
- ✓ quarries
 - carving stone
 - ✓ aggregate
- transportation/communications
 - airport / landing strip
 - roads/access routes
 - shipping
 - channels/canal
 - telephone lines, satellite dishes, cables
 - beacons
- waste disposal (solid, liquid or gas?)
- energy project
 - hydro
 - pipeline
 - transmission line
- ✓ other water licenses, permits, leases
- ✓ lands
 - Inuit owned
 - surface rights
 - sub-surface rights
 - ✓ Crown
 - Commissioner's
 - Marine Areas
- other private lands held under tenure
- heritage sites or archaeological sites
- recreation (eg. cabins, tent frames)
- tourism
- municipal (construction)
 - commercial
 - built structures
 - infrastructure
- agriculture
- forestry
- other, explain _____

Effects from Other Resource Uses

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

Directly-related Socio-Economic & Cultural Effects:

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

Biophysical Environment Effects

15. — deposit into surface or ground water
16. — deposit to marine environment
17. — change in surface or ground water flow
18. — change in water temperature
19. — change in drainage pattern
20. — change in air quality
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23. — ice fog
24. — change in ambient noise level
25. — deposit onto ground surface
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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 |
|--------------------|---|
| | |
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☒ 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)?

☒ Will the project encourage a "boom-bust" economy over an economy of permanence?

☒ Will the project encourage more wildlife harvesting on account of better access for hunters and fishers?

☒ Will the project have an effect on the water quality of the watershed?

☒ 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 |
|---|---------------------------------------|
| | <i>See Screening Decision Report.</i> |
| | |
| | |
| | |
| | |

12. Significance

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

☐ Yes ☒ No

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

Number(s) _____ _____
 _____ _____
 _____ _____
 _____ _____

13. Likelihood of Occurrence

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

☐ Yes ☒ No

Number(s) _____ _____
 _____ _____

14. Information Sources

What sources of information were used in the screening process?

- ☐ local knowledge
- ☐ traditional ecological knowledge
- ☐ land use plans (and draft land use plans)
- ☒ authorizing agencies' data
- ☒ departmental or agency opinions
- ☒ maps
- ☐ photos
- ☐ reports (scientific, economic, social, or anthropological, archival or historical information)
- ☐ Nunavut Environmental Database (NED)
- ☐ personal communications
- ☐ Project Registry (NPC)
- ☒ previous similar projects
- ☐ service organizations
- ☐ media monitoring
- ☐ experts
- ☐ other _____

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

15. Staff Recommendations

Staff Recommendations: (include rationale)

Little environmental impact at
this stage of the project.

Prepared By: Gordon Jodrey Date: June 26, 2001
Screeners (yyyy-mm-dd)

16. NIRB'S Principles

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

17. Indication to the Minister (12.4.4)

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

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

01WN080

12

18. Terms and Conditions

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

Specific Terms and Conditions to note include:

19. Authorization

Approved By: _____

(NIRB Decision Maker)

Date: _____

(yyyy-mm-dd)

20. Follow-up / Monitoring

Minister's Determination

_____ Minister agreed with NIRB's indication.
Action? _____

_____ Minister varied NIRB's indication.
Action? _____

_____ Minister rejected NIRB's indication.
Action? _____

If applicable,

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

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



Environment
Canada

Environnement
Canada

Environmental Protection Branch
Qimugluk Building, P.O. Box 1870
Iqaluit, NU X0A 0H0
Tel: (867) 975-4639
Fax: (867) 975-4645

July 3, 2001

Our file: 4703-003-011

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

Fax: (867) 983-2594

Re: Comments on Application for Water License NIRB01WN80 - Twin Mining Corp. - Drilling Exploration, Baffin, NU.

On behalf of Environment Canada (EC), I have reviewed the above noted water license NIRB01WN80. The comments provided for the above water license have been made under Section 36 of the *Fisheries Act*, the *Canadian Environmental Protection Act* (CEPA) and the *Migratory Birds Convention Act* (MBCA).

Twin Mining Corporation has proposed to conduct exploratory drilling and prospecting for diamond within Jackson Inlet on the Brodeur Peninsula. Temporary camp will be set upon to accommodate a maximum of 16 people over a two month period.

Comments and Recommendations

Wildlife Concerns

The camp and nearby drilling site are located along an east-west transect. While there are no known key migratory bird terrestrial habitat sites directly at the camp location, the camp is close to Ivory Gull colonies located north and south of Jackson Inlet. These colonies are sensitive to disturbance by air or ground vehicles, and thus the applicant is strongly recommended to stay clear of these colonies through July and August. These gulls are pure white, and their colonies are obvious to the eye when in the air, as there is little or no other white against the rock outcrops on which they nest. If colonies are sighted, helicopters should remain more than 1 km away. Also, the CWS would greatly appreciate if the applicant could record their location and report that to us, or the DSD Officer in Arctic Bay.

The proponent neglected to:

- state that "all spills" are to be documented and reported to the NWT Spill line (867) 920-8130;
- provide a spill contingency plan;
- provide a list of all hazardous materials that may be used during the program;
- indicate if spill kits are to be used at fueling and fuel storage areas;
- land area (meters squared) to be affected by proposed drill works;
- the location of holes in relation to water;
- number of holes to be drilled;
- types of drill additives to be used;
- provide location of sumps for both camp and drill activities in relation to water;
- include location of fuel storage in relation to water for aircraft, camps and drilling uses;
- include the estimated volume of fuel to be stored;
- provide information as to how equipment will be arriving to site.

Canada



The following conditions should be applied throughout all phases of the project.

- The proponent 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 in such a manner that the contents do not enter a waterbody.
- EC encourages proponents, when storing barreled fuel at a location, to use a secondary containment rather than relying on "natural depressions". Self supporting insta-berms are available from various suppliers within Canada.
- No disturbance of the bed or banks of any definable watercourse is permitted. Special efforts must be made to avoid bed and bank disturbance during the spring.

Please do not hesitate to contact me with any questions or comments with regards to the foregoing at (867) 975-4639 or by email at lawrence.ignace@ec.gc.ca.

Yours truly,



Lawrence Ignace
Environmental Assessment Specialist

cc: (Paula Pacholek, Northern Environmental Assessment Coordinator, Yellowknife)
(Mark Mallory, CWS, Iqaluit)

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 the project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

| | |
|---|-------------------------------|
| Project Title: <u>Drilling Exploration</u> | |
| Proponent: <u>Twin Mining Corp.</u> | |
| Location: <u>Jackson Inlet, Nunavut</u> | |
| Comments Due By: <u>June 28, 2001</u> | NIRB #: <u>01WN080</u> |

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 checked="" 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:

I KNOW THERE WERE COMMUNITY CONSULTATIONS, I AM HOPEING THAT THE CONCERNS OR SUGGESTIONS RAISED AT THAT MEETING WILL BE ADDRESSED.

Do you have any suggestions or recommendations for this application?

MY SUGGESTION WOULD BE TO EMPLOY LOCAL PEOPLE IF POSSIBLE.

Do you support the project proposal? Yes ☒ No ☐ Any additional comments?

Name of person commenting: NURSE ILOALUSJUAQ of ARCTIC BAY

Position: MAYOR **Organization:** NAMLET OF ARCTIC BAY

Signature: [Signature] **Date:** JUNE 18, 2001



Fisheries and Oceans
Canada

Pêches et Océans
Canada

Coast Guard

Garde côtière

Central & Arctic Region

Région du Centre et de l'Arctique

201 N. Front Street, Suite 703
Sarnia, Ontario
N7T 8B1

Your file Votre référence

Our file Notre référence
1675-9-9

June 19, 2001

Gladys Joudrey
Nunavut Impact Review Board
PO Box 2379
Cambridge Bay, NT X0E 0C0

Dear Madam:

Thank you for your submission with regard to NIRB # 01WN080, Drilling Exploration, Twin Mining Corporation.

The information will be reviewed by this office and our response will be forwarded to DFO Fish Habitat in Iqaluit. They in turn will prepare a Departmental response encompassing both the Navigable Waters Protection Act and the Fisheries Act.

Yours truly,

Barry Putt
A/Inspections Supervisor
Navigable Waters Protection

RAM/kab

cc: FHM



Canada



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Department of
Culture, Language, Elders & Youth

Pitohilikioni

Ministère du gouvernement
Culture Langues, Aînés et Jeunesse

June 14, 2001

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

Re: Land Use Application NIRB 01WN080 Site Investigation PIN-3, Lady Franklin Point, Nunavut (Defence Construction Canada)

Due Date: **July 6, 2001**

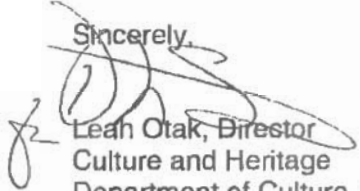
Dear Ms. Joudrey:

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

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

Sincerely,


Leah Otak, Director
Culture and Heritage

Department of Culture, Language, Elders and Youth





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Department of
Culture, Language, Elders & Youth

Pithohilikioni

Ministère du gouvernement
Culture Langues, Aînés et Jeunesse

ARCHAEOLOGICAL RESOURCES: TERMS AND CONDITIONS

BACKGROUND

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

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

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

- II. "Archaeological site" means a site or work within Nunavut of archaeological ethnographical or historical importance, interest or significance, or a place where an archaeological specimen is found, and includes explorer's cairns.

"Archaeological specimen" means an object or specimen found in an archaeological site of archaeological ethnographical or historical importance, interest or significance, or a place where an archaeological specimen is found, and includes explorer's documents.

- III. Any new Terms and Conditions raising issues found in ss. 10 and 16 of the Territorial Land Use Regulations should duplicate statutory sections, or be stricter, but not more lenient in terms of protection of archaeological resources.

- IV.
1. The permittee shall not operate any vehicle over a known or suspected archaeological site.
 2. The permittee shall not remove, disturb or displace any archaeological specimen or site.
 3. The permittee shall contact the Department of Culture, Language, Elders and Youth (867-975-5500) and DIAND officials should an archaeological site or specimen be encountered or disturbed by any land use activity.
 4. The permittee shall immediately cease any activity which disturbs an archaeological or historical site, encountered during the course of a land use operation, until permitted to proceed with the authorization of the Department of Culture, Language, Elders and Youth, Government of Nunavut, Iqaluit.
 5. The permittee shall follow the direction of the Department of Culture, Language, Elders and Youth and DIAND in restoring disturbed archaeological sites to an acceptable condition.
 6. The permittee shall provide information to the Department of Culture, Language, Elders and Youth about each archaeological site or specimen encountered by any land use activity, by completing the attached form.
 7. The permittee shall make best efforts to ensure that all persons working under authority of the permit are aware of these conditions concerning archaeological sites and specimens.
 8. The permittee shall avoid the known archaeological sites as listed in Attachment #1

9. The permittee shall have an archaeologist perform the following functions, as required by the Department of Culture, Language, Elders and Youth: survey, inventory and documentation of the archaeological and historical resources of the land use area; assessment of potential for damage to archaeological sites; mitigation; marking boundaries of archaeological sites for avoidance; restoration. The Department of Culture, Language, Elders and Youth shall authorize by way of a Nunavut Archaeologist Permit all procedures subsumed under the above operations.

Fax: 613 238-5774

Application NWB2JAC

LIST OF RELEVANT CONFORMITY REQUIREMENTS

The relevant terms of the plan are noted in each requirement.

GENERAL

2. **Environmental Protection:** s3.3.11.8: The applicant undertakes to prevent any new occurrences of pollution, garbage and contamination at the site of the development.

☒ YES

☐ NO

3. **Removal of Fuel Drums:** s3.3.11.8: The applicant undertakes to remove all drums safely from the site and dispose of the drums in a safe manner.

☒ YES

☐ NO

4. **New Site Restoration and Clean Up:** s3.3.11.1 and Appendix C, s1: The applicant undertakes to clean up the site and restore the site to its natural condition to the greatest extent possible.

☒ YES

☐ NO

5. **Old Site Restoration and Clean Up:** s3.3.11.2: The applicant undertakes to clean up the site and restore the site to its original condition to the greatest extent possible, including any work required due to the applicant's action prior to this application.

☒ YES

☐ NO

6. **Low-Level Air Flights:** Appendix C, s3: Will the applicant avoid all low-level flights?

☒ YES

☐ NO

- i. If not, explain why such flights are or may be absolutely necessary.

less than 50 ft for drill moves on
ice-bion (approx 5 hrs/week)

- ii. If such flights are or may be absolutely necessary, will they avoid disturbance to people and wildlife?

☒ YES

☐ NO

- iii. If not, explain why it is not possible to avoid such disturbance.

7. Polar Bear Denning Areas and Walrus Haul-outs: s3.3.1.8: Will the applicant keep its activities away from any polar bear denning area or walrus haul-out?

YES

NO

HERITAGE RESOURCES

10. Reporting of Archaeological Sites: s3.3.9.3 and Appendix C, s2 and s8: Will the applicant immediately report the discovery of all suspected archaeological sites to the Department of Culture, Language, Elders and Youth (GN)?

YES

NO

12. Code of Good Conduct for Land Users: Appendix C: The applicant undertakes to adhere to the code of Good Conduct at all times.

YES

NO

I, RYAN ROY GORTON MINE (name of applicant), certify that the information I have given in this application is true and correct and hereby make the above undertakings which form part of my application for a project proposal within the meaning of the Nunavut Land Claims Agreement.

Date: 10/06/01

Signature of Applicant: [Signature]