

PRELIMINARY SCREENING REPORT FORM

PRELIMINARY SCREENER: MVLWB REFERENCE / FILE NUMBER: MV2001C0059 TITLE: Mineral Exploration ORGANIZATION: BHP World Exploration	EIRB REFERENCE NUMBER:
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Type of Development:
(CHECK ALL THAT APPLY)

- | | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | New |
| <input type="checkbox"/> | Amend, EIRB Ref. # |
| <input checked="" type="checkbox"/> | Requires permit, license or authorization |
| <input type="checkbox"/> | Does not require permit, license or authorization |

Principal Activities (related to scoping)
(CHECK ALL THAT APPLY)

- | | | |
|---------------------------------------|---|---|
| <input type="checkbox"/> Construction | <input checked="" type="checkbox"/> Exploration | <input type="checkbox"/> Decommissioning |
| <input type="checkbox"/> Installation | <input type="checkbox"/> Industrial | <input type="checkbox"/> Abandonment |
| <input type="checkbox"/> Maintenance | <input type="checkbox"/> Recreation | <input type="checkbox"/> Aerial |
| <input type="checkbox"/> Expansion | <input type="checkbox"/> Municipal | <input type="checkbox"/> Harvesting |
| <input type="checkbox"/> Operation | <input type="checkbox"/> Quarry | <input checked="" type="checkbox"/> Camp |
| <input type="checkbox"/> Repair | <input type="checkbox"/> Linear / Corridor | <input type="checkbox"/> Scientific/ |
| <input type="checkbox"/> Research | <input checked="" type="checkbox"/> Sewage | <input checked="" type="checkbox"/> Solid Waste |
| <input type="checkbox"/> Water Intake | | |
| <input type="checkbox"/> Other: _____ | | |

Principal Development Components (related to scoping)

- | | |
|--|--|
| <input type="checkbox"/> Access Road
<input type="checkbox"/> construction
<input type="checkbox"/> abandonment/removal
<input type="checkbox"/> modification e.g., widening, straightening
<input type="checkbox"/> Automobile, Aircraft or Vessel Movement
<input type="checkbox"/> Blasting
<input type="checkbox"/> Building
<input checked="" type="checkbox"/> Burning
<input type="checkbox"/> Burying
<input type="checkbox"/> Channeling
<input type="checkbox"/> Cut and Fill
<input type="checkbox"/> Cutting of Trees or Removal of Vegetation
<input type="checkbox"/> Dams and Impoundments
<input type="checkbox"/> construction
<input type="checkbox"/> abandonment/removal
<input type="checkbox"/> modification
<input type="checkbox"/> Ditch Construction
<input type="checkbox"/> Drainage Alteration
<input type="checkbox"/> Drilling other than Geoscientific
<input type="checkbox"/> Ecological Surveys
<input type="checkbox"/> Excavation
<input type="checkbox"/> Explosive Storage
<input checked="" type="checkbox"/> Fuel Storage
<input type="checkbox"/> Topsoil, Overburden or Soil
<input type="checkbox"/> fill <input type="checkbox"/> removal
<input type="checkbox"/> disposal <input type="checkbox"/> storage | <input type="checkbox"/> Waste Management
<input type="checkbox"/> disposal of hazardous waste
<input checked="" type="checkbox"/> waste generation
<input checked="" type="checkbox"/> Sewage
<input checked="" type="checkbox"/> disposal of sewage
<input checked="" type="checkbox"/> Geoscientific Sampling
<input type="checkbox"/> trenching
<input checked="" type="checkbox"/> diamond drill
<input type="checkbox"/> borehole core sampling
<input type="checkbox"/> bulk soil sampling
<input type="checkbox"/> Gravel
<input type="checkbox"/> Hydrological Testing
<input checked="" type="checkbox"/> Site Restoration
<input type="checkbox"/> fertilization
<input type="checkbox"/> grubbing
<input type="checkbox"/> planting/seeding
<input type="checkbox"/> reforestation
<input type="checkbox"/> scarify
<input type="checkbox"/> spraying
<input type="checkbox"/> recontouring
<input checked="" type="checkbox"/> Slashing and removal of vegetation
<input type="checkbox"/> Soil Testing
<input type="checkbox"/> Stream Crossing/Bridging
<input type="checkbox"/> Tunneling/Underground
<input type="checkbox"/> Other (describe): |
|--|--|

NTS Topographic Map Sheet Numbers
85 K8/9

Latitude / Longitude and UTM System:
62°22-62°38W 116°02'-116°30N

Nearest Community and Water Body:
Edzo, numerous lakes nearby

Land Status (consultation information)

- Free Hold / Private Commissioners Land Federal Crown Land Municipal Land

Transboundary Implications

- British Columbia Alberta Saskatchewan Yukon
 Nunavut Wood Buffalo National Park Inuvialuit Settlement Region

Type of Transboundary Implication: Impact / Effect Development

Public Concern _____
(DESCRIBE)

PHYSICAL - CHEMICAL EFFECTS

IMPACT

MITIGATION

1. Ground Water

- water table alteration
 water quality changes
 infiltration changes
 other
 N/A

Potential for encountering artesian aquifers addressed in LUP conditions.

IMPACT

MITIGATION

2. Surface Water

- flow or level changes
 water quality changes
 water quantity changes
 Drainage pattern changes
 temperature
 wetland changes / loss
 other:
 N/A

IMPACT

3. Noise

- noise in/near water
- other: noise increase
- N/A

MITIGATION

Drilling will be a temporary increase in noise levels

IMPACT

4. Land

- geologic structure changes
- soil contamination
- buffer zone loss
- soil compaction & settling
- Destabilization / erosion
- permafrost regime alteration
- other: explosives/scarring
- N/A

MITIGATION

Conditions to address potential for erosion

IMPACT

5. Non Renewable Natural Resources

- resource depletion
- other:
- N/A

MITIGATION

If successful may lead to resource depletion, will be mitigated at time.

IMPACT

6. Air/Climate/ Atmosphere

- Other
- N/A

MITIGATION

BIOLOGICAL ENVIRONMENT

IMPACT

MITIGATION

1. **Vegetation**

- species composition
- species introduction
- toxin / heavy accumulation
- other:
- N/A

IMPACT

MITIGATION

2. **Wildlife & Fish**

- effects on rare, threatened or endangered species
- fish population changes
- waterfowl population changes
- breeding disturbance
- population reduction
- species diversity change
- health changes
(Identify)
- behavioural changes
(Identify)
- habitat changes / effects
- game species effects
- toxins / heavy metals
- forestry changes
- agricultural changes
- other:

Increased traffic increases potential for impacts with wildlife, as well flying over the Wood Bison Sanctuary may disturb Bison. Will be forwarded RWED letter of advice and requesting proponent to comply with it. Condition included to protect both it and the proposed Edehzhie Protected Area.

- N/A

INTERACTING ENVIRONMENT

IMPACT

MITIGATION

1. Habitat and Communities

- predator-prey
- wildlife habitat / ecosystem
Composition changes
- reduction / removal of
keystone or endangered
species
- removal of wildlife corridor or
buffer zone
- other:
- N/A

IMPACT

MITIGATION

2. Social and Economic

- planning / zoning changes or
conflicts
- increase in urban facilities or
services use
- rental house
- airport operations / capacity
changes
- human health hazard
- impair the recreational use of
water or aesthetic quality
- affect water use for other
purposes
- affect other land use
operations
- quality of life changes
- public concern
- other:
- N/A

Some increase of use of Highway infrastructure, minor impact no mitigation required.

IMPACT

MITIGATION

3. Cultural and Heritage

- effects to historic property
- increased economic pressure
on historic properties

change to or loss of historic resources

change to or loss of archaeological resources

increased pressure on archaeological sites

Applicant has map of two known archaeological sites, conditions included to avoid impact.

change to or loss of aesthetically important site

affects to aboriginal lifestyle

other:

N/A

NOTES:

Reviewer comments

Zoe Posynick - RWED	Should incinerate garbage rather than burn, should minimize helicopter traffic and avoid the Mackenzie Bison Sanctuary, should exercise caution along traffic corridors, should avoid flying over North Arm Territorial Park.	Incineration included with conditions, RWED letter forwarded to the applicant.
Greg Cook - DIAND	Include Spill report number, meet maximum distances from water bodies, perhaps berm the fuel storage	Conditions have been included to address protection of water and fuel storage.
Ken Dahl, DIAND	Easy to access, treed, commonly hunted by traditional and recreational hunters. Camp location is favourable, applicant should check with navigational regulators as is an old airstrip. Assume that potable water will be trucked in. Foster natural regeneration of trees at drill sites. Included winter conditions so that cleanup would be included in permit. Recommended conditions.	Included recommended conditions as appropriate. Incorporated conditions.
Wade Romanko- Environment Canada	Believes the project has the potential to affect fish pursuant to the fisheries act. Suggested conditions.	
Jennifer Morin GNWT	Telephone conversation. Indicated that the main concern they had that damage to the access road be fixed by the applicant.	Incorporate restoration into conditions.
Marc Lange, DFO	Feels that there is potential to affect fish. Included recommendations to the applicant to prevent impact on fish.	These have also been incorporated into the permit conditions, where applicable.
First Nations Comments Samuel Gargon – Hamlet of Fort Providence.	Have consulted with Band Members and Band Council, will be meeting with the Tri-council. Have concerns that this is an environmentally sensitive area, very wet and mucky not stable in the summer. They also have concerns about the Bison Sanctuary. They are in the middle of trying to set a buffer zone around the protected area as part of a co-management strategy, but there is nothing happening on that right now. They are looking at options, but will be at least October 1. Also concerned with the incomplete traditional land use mapping project. Feel that there should not be a decision on new applications at this time. Feels that there are too many unknowns. Not aware of the position of other bands and environmental groups, feels that a divide system mapped. I asked for something in writing and advised that I would bring the phone log	Conditions exist that will address some environmental and wildlife concerns.

This file is for mineral exploration, with a camp, to the east of Highway 3 in the general area of mile 129. The camp is proposed to be set up at the old Mackenzie airstrip. The maximum number of occupants at the camp is proposed to be 25. Potable water will need to be trucked in, the applicant has indicated that a local contractor is preferred for this work. The site of the camp has been previously cleared, the Inspector has indicated that there is some brush regenerated there. The applicant has indicated that they are going to use latrine pits for the washrooms. Comments from health are pending. The applicant has indicated that they will burn garbage, an incinerator will be required in the conditions.

The exploration is slated to be a helicopter supported drill programs between the start date of the permit and November 1, 2001. The applicant is proposing to use 3 drills to do a total of 20 holes or 6000m of drilling. The applicant has indicated minimal clearing with the drill sites, this will be part of the conditions. They have indicated that they will be capping and sealing any drill holes that are producing.

There was an indication that this application may be in an area unmapped by a gentleman in Fort Providence. He asked me to fax the application and the deadline again. Heard from Samuel Gargon he indicated that they have concerns with the environmental effects of this project as this is a sensitive area. He also indicated that this is a traditional use area and that the Traditional Land Use mapping project is not yet complete. He feels that there should no permits approved until this is complete. There are conditions that address some of the concerns. I am not certain of the impact of the proposed mineral exploration on the mapping project.

The actual drill program would likely have minimal impact on the surrounding environment. The equipment will be flown in as it a heliportable operation. The camp is to be set up on a previously disturbed site. The location of the operation is removed by a minimum of 50 km from the Bison Sanctuary.

Most of the concerns raised through the circulation of this land use permit that can be addressed through the conditions. The concern that the Traditional Land Use mapping project be completed prior to any development should be addressed through other processes such as Interim Measures Agreements or Land Withdrawals.

**PRELIMINARY SCREENER / REFERRING BODY INFORMATION
(CHECK ALL THAT APPLY)**

	RA or DRA	ADVICE	PERMIT REQUIRED
<u>Federal</u>			
CANADIAN HERITAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CANADIAN NUCLEAR SAFETY COMMISSION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CANADIAN TRANSPORTATION AGENCY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ENVIRONMENT CANADA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FISHERIES & OCEANS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
INDIAN AFFAIRS & NORTHERN DEVELOPMENT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
INDUSTRY CANADA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NATIONAL DEFENSE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NATIONAL ENERGY BOARD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NATURAL RESOURCES CANADA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PUBLIC WORKS & GOVERNMENT SERVICES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRANSPORT CANADA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NOGD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Territorial</u>			
RESOURCES, WILDLIFE AND ECONOMIC DEVELOPMENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MUNICIPAL AND COMMUNITY AFFAIRS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TRANSPORTATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HEALTH BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Aboriginal / First Nation</u>			
Jolene Koyina, Dogrib Treaty 11	<input checked="" type="checkbox"/>		
John Ivy, Rae Band Manager	<input checked="" type="checkbox"/>		
Laura Duncan, Wha ti First Nation	<input checked="" type="checkbox"/>		
Albert Lafferty, Fort Providence Local 57	<input checked="" type="checkbox"/>		
Rachel Crapeau, YK Dene Land and Environment Environment Department, Dene Nation	<input checked="" type="checkbox"/>		
<u>Local Government</u>			
Hamlet of Fort Providence	<input checked="" type="checkbox"/>		
<u>Communities</u>			
		<input type="checkbox"/>	

REASONS FOR DECISION
(LIST ALL REASONS AND SUPPORTING RATIONALES FOR PRELIMINARY SCREENING DECISION)

Issued pursuant to Section 121 of the *Mackenzie Valley Resource Management Act (MVRMA)* and Section 26 of the *Northwest Territories Waters Act (NWTWA)*

APPLICATION:

- The application was submitted to the Board pursuant to Section 19 of the *Mackenzie Valley Land Use Regulations (MVLUR)* and the Board has accepted the application as complete.
- Under section 18.18 a(i) of the *MVLUR*, the Applicant is eligible for a Land Use Permit.
- Notice was given in accordance with Sections 63 & 64 of the *MVRMA* and Section 23 of the *NWTWA*.
- There was no public hearing held in association with this application.

DECISION:

After having been satisfied that the operation had been screened pursuant to the *MVRMA*, and that:

- any potential adverse environmental effects were insignificant or mitigable with known technology, and there was no significant public concern, and as such the application could proceed through the regulatory process; and
- after reviewing the submission of the Applicant, the written comments received by the Board, and the staff report prepared for the Board,

the Board, having due regard to the facts and circumstances, the merits of the submissions made to it, and to the purpose, scope and intent of the *MVRMA* and the *NWTWA* and Regulations made thereunder has determined that:

MV2001C0059 be issued subject to the terms and conditions contained therein.

The Board's reasons for this decision are as follows:

Operation

- The Applicant has indicated within their application that they will commit to compliance under sections 9, 10, and 15 of the *MVLUR*.
- It is the opinion of the Board that the conditions of MV2001C0059 attached, pursuant to section 26 (1) of the *MVLUR* will significantly reduce the potential environmental impacts of the operation on the subject land use area and surrounding waterbodies.
- The operation will likely contribute to the socio-economic well-being and economic development of the region.
- Under Section 3 of the *MVLUR*, the Board has determined the Applicant has been notified of their obligation to abide by other legislation associated with this MV2001C0059.
- The use of water proposed by the Applicant is of a nature contemplated by the *MVRMA* and the *NWTWA*.

Consultation

- The MVLWB has consulted with 'Responsible Ministers' as defined under Section 111 of the *MVRMA* and has determined that incorporating aspects of their recommendations into the permitting conditions will decrease the potential for environmental impacts.

MV2001C0059 contains provisions that the Board feels necessary to ensure and monitor compliance with the *MVRMA* and the *NWTWA* and the Regulations made there under and to provide appropriate safeguards in respect of the Applicant's use of the waters affected by the License. The Board will provide any referenced material or documents and/or reasons for decision for any specific clause or clauses contained within the application if requested to do so in writing.

PRELIMINARY SCREENING DECISION	
<input checked="" type="checkbox"/>	Outside Local Government Boundaries
<input type="checkbox"/>	The development proposal might have a significant adverse impact on the environment, <i>refer it to the EIRB.</i>
<input checked="" type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="checkbox"/>	The development proposal might have public concern, <i>refer it to the EIRB.</i>
<input checked="" type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="checkbox"/>	Wholly within Local Government Boundaries
<input type="checkbox"/>	The development proposal is likely to have a significant adverse impact on air, water or renewable resources, <i>refer it to the EIRB.</i>
<input type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="checkbox"/>	The development proposal might have public concern, <i>refer it to the EIRB.</i>
<input type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>

Preliminary Screening Organization

Mackenzie Valley Land and Water Board

Signatures


