

PRELIMINARY SCREENING REPORT FORM

PRELIMINARY SCREENER: Gwich'in Land and Water Board REFERENCE / FILE NUMBER: GLWB - G02S004 TITLE: Geotechnical Survey – near Km 251 (Dempster Highway) ORGANIZATION: Gwich'in Development Corporation Date: May 2, 2002.	EIRB REFERENCE NUMBER:
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- Type of Development:** (CHECK ALL THAT APPLY)
- | | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | New Development |
| <input type="checkbox"/> | Amend, EIRB Ref. # |
| <input type="checkbox"/> | Renew, 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 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 checked="" type="checkbox"/> Operation | <input type="checkbox"/> Quarry | <input type="checkbox"/> Camp |
| <input type="checkbox"/> Repair | <input checked="" type="checkbox"/> Linear / Corridor | <input type="checkbox"/> Scientific/Rese |
| <input type="checkbox"/> Research | <input type="checkbox"/> Sewage | <input type="checkbox"/> Solid Waste |
| <input type="checkbox"/> Water Intake | | |
| <input checked="" type="checkbox"/> Other: <u>Geotechnical Survey</u> | | |

Principal Development Components (related to scoping)

- | | |
|--|---|
| <input checked="" 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 type="checkbox"/> Burning
<input type="checkbox"/> Burying
<input type="checkbox"/> Channeling
<input type="checkbox"/> Cut and Fill
<input checked="" 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 checked="" type="checkbox"/> Drainage Alteration
<input type="checkbox"/> Drilling other than Geoscientific
<input type="checkbox"/> Ecological Surveys
<input checked="" type="checkbox"/> Excavation
<input type="checkbox"/> Explosive Storage
<input 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 type="checkbox"/> waste generation
<input type="checkbox"/> Sewage
<input type="checkbox"/> disposal of sewage
<input checked="" type="checkbox"/> Geoscientific Sampling
<input type="checkbox"/> trenching
<input type="checkbox"/> diamond drill
<input checked="" 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 type="checkbox"/> Slashing and removal of vegetation
<input checked="" 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
(LIST ALL THAT APPLY)
107 B – 1:250, 000 Scale
107 B/7 – 1:50, 000 Scale

Latitude / Longitude and UTM System:

Access Road, begin/end : Minimum Latitude: 68° 18' 30" N,
Minimum Longitude: 133° 19' 30"

Maximum Latitude: 68° 19' 00" N,
Maximum Longitude: 133° 20' 30" W

Nearest Community and Water Body:

Inuvik, NT.
Campbell Lake

Land Status (consultation information)

Free Hold / Private (Gwich'in) Commissioners Land Federal Crown Land Municipal Land

Transboundary Implications

British Columbia Alberta Saskatchewan Manitoba 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

- Permittee must report chemical and petroleum spills.

IMPACT

MITIGATION

2. Surface Water

- flow or level changes

- Existing access roads/trails will be utilized minimizing unnecessary clearing of vegetation and soil compaction near streams. Cutting stream banks is not allowed, unless approved in writing by DFO.

- Proponent must not obstruct natural drainage systems.

Water quality changes

- The proponent must ensure that any chemicals, fuels or waste (deleterious substances) associated with the proposed project do not enter water bodies frequented by fish.

Water quantity changes

Drainage pattern changes

- Will remove any obstructions to natural drainages.

temperature

wetland changes / loss

other:

N/A

IMPACT

MITIGATION

3. Noise

noise in/near water

other: noise increase

N/A

IMPACT

MITIGATION

4. Land

geologic structure changes

soil contamination

- Any fuel contamination on the land will be reported to the 24 Hour Spill Report line in Yellowknife.

- Absorbing pads will be on hand when fueling equipment.

buffer zone loss

soil compaction & settling

- Heavy equipment will be moved only when the ground is frozen and there is enough snow cover on the ground.

Destabilization / erosion

- Permittee must install erosion control structures as needed.

permafrost regime alteration

- Permittee must stop land use activity when rutting occurs.

other:

N/A

IMPACT

5. Non Renewable Natural Resources

resource depletion

other:

N/A

MITIGATION

- Permittee must salvage all timber larger than 13 centimetres in diameter, should they encounter trees this size.

IMPACT

6. Air/Climate/ Atmosphere

Ice fog and emissions from generator

Burning of slash from clearing

MITIGATION

**BIOLOGICAL ENVIRONMENT
IMPACT**

1. Vegetation

species composition

species introduction

toxin / heavy accumulation

other:

N/A

MITIGATION

IMPACT

1. Wildlife & Fish

effects on rare, threatened or endangered species

fish population changes

MITIGATION

- DFO concluded that the activity may result in the harmful alteration, disruption or destruction of fish habitat. A letter of advice (to the applicant) listing mitigation measures, if implemented should prevent impacts to fish and fish habitat.

waterfowl population changes

breeding disturbance

population reduction

species diversity change

health changes
(waste may be harmful to wildlife)

behavioural changes
(avoidance behaviour and
blockage of migration or
movement corridors)

habitat changes / effects

game species effects

toxins / heavy metals

forestry changes

agricultural changes

other:

N/A

- Operations to be completed expeditiously to minimize impacts to resident wildlife.

- The Permittee must not unnecessarily damage wildlife habitat.

- All spills to be reported to NWT 24-hour spill line.

**INTERACTING ENVIRONMENT
IMPACT**

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

MITIGATION

IMPACT

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

MITIGATION

- The operator must take reasonable safe guards against damage to private property from the operation.

affect water use for other purposes

affect other land use operations

quality of life changes

public concern

other:

N/A

IMPACT

MITIGATION

3. Cultural and Heritage

affects 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

change to or loss of aesthetically important site

affects to aboriginal lifestyle

other:

N/A

NOTES:

**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 TRANSPORTATION AGENCY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ENVIRONMENT CANADA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FISHERIES & OCEANS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
INDIAN AFFAIRS & NORTHERN DEVELOPMENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NATIONAL ENERGY BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NATURAL RESOURCES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PUBLIC WORKS & GOVERNMENT SERVICES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COAST GUARD BASE (HAY RIVER)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NORTHERN OIL & GAS DIRECTORET	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Territorial</u>			
RESOURCES, WILDLIFE AND ECONOMIC DEVELOPMENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DEPARTMENT OF TRANSPORTATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MUNICIPAL AND COMMUNITY AFFIARS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
INUVIK REGIONAL HEALTH BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CANADIAN WILDLIFE SERVICE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PRINCE of WALES NORTHERN HERITAGE MUSEUM	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Public Boards</u>			
MACKENZIE VALLEY LAND AND WATER BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MACKENZIE VALLEY ENVIRONMENTAL IMPACT REVIEW BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GWICH'IN LAND USE PLANNING BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GWICH'IN RENEWABLE RESOURCES BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
INUVALUIT ENVIRONMENTAL IMPACT SCREENING COMMITTEE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Aboriginal / First Nation</u>			
GWICH'IN LAND ADMINISTRATION (TRIBAL COUNCIL)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
GWICH'IN SOCIAL CULTURAL INSTITUTE (Tsiigeh)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Local Government</u>			
TOWN OF INUVIK	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

This undertaking will take place adjacent to the Dempster Highway near kilometer post 251 where test will determine if the rock in the area is suitable for a quarry development. This operation is part of the Gwich'in overall plan to identify new sources of granular material on Gwich'in private land. Standard land use practices and methods will be utilized for geotechnical drilling. Projected environmental impacts and resource impacts relating to the operation will be localized in nature. An existing access road from the Dempster Highway to the area will be used, if possible, and done under frozen ground conditions, minimizing the extent for major disturbances. The applicant is required to have in its' possession a valid Gwich'in Access Authorization and must also obtain a Highway Access Permit from the Department of Transportation.

<input type="checkbox"/>	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

Signatures

Gwich'in Land and Water Board
