

**Preliminary Screening Report Form**

<b>Preliminary screener:</b> MVLWB <b>Reference / File number:</b> MV2013Q0017 <b>TITLE:</b> Quarry Operation, Hwy #5, km 34.1 <b>ORGANIZATION:</b> ProCore Drilling Ltd. <b>MEETING DATE:</b> May 22, 2014	<b>EIRB Reference number:</b>
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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, licence, or authorization         |
| <input type="checkbox"/>            | Does not require permit, licence, or authorization |

**Project Summary**

The proposed operation consists of quarrying from an existing gravel stockpile near Hay River, NT, at km 34.1 of NWT Highway #5. All activities will take place at two sites, which are very close together. Both sites are included within the following bounds:

W115° 16.5	W115° 13.81
N60° 44.12	N60° 44.37

Use of this site was previously permitted under LUPs MV2000A0054 and MV2006Q0011 to Ruskin Construction Ltd. and Stan Dean and Sons Ltd.

ProCore holds a valid quarry permit with Aboriginal Affairs and Northern Development Canada: 2013QP0083.

The applicant has proposed to use the following equipment, or similar type and size:

- Loader x1
- Crawler Tractor/Dozer x1
- Gravel trucks x2

Equipment will be fueled prior to going to site, and may also be filled using a tidy tank mounted in a pick-up truck.

No additional access is required. There is no proposed camp and no water use is expected to be required for this operation.

Garbage will be disposed of in Hay River, NT.

As the site is pre-disturbed, there is little significant vegetation or natural habitat which could be disturbed by the operation.

**Scope**

Quarry granular material from an existing gravel pit at km 34.1 on NWT Highway #5.

Land Use Eligibility - Section 18 Mackenzie Valley Land Use Regulations 18(a)(i)

**Type of Disposition**                      Disposition Number(s)

- |   |            |
|---|------------|
| <input type="checkbox"/> Mineral Claims           |            |
| <input type="checkbox"/> Prospecting Permit (s)   |            |
| <input type="checkbox"/> Mineral Leases           |            |
| <input type="checkbox"/> Oil and Gas: EL/SDL/PL   |            |
| <input checked="" type="checkbox"/> Quarry Permit | 2013QP0083 |
| <input type="checkbox"/> Timber Permit            |            |
| <input type="checkbox"/> Other:                   |            |

**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 type="checkbox"/> Operation    | <input checked="" type="checkbox"/> Quarry | <input type="checkbox"/> Camp            |
| <input type="checkbox"/> Repair       | <input type="checkbox"/> Linear / Corridor | <input type="checkbox"/> Scientific/     |
| <input type="checkbox"/> Research     | <input type="checkbox"/> Sewage            | <input type="checkbox"/> Solid Waste     |
| <input type="checkbox"/> Water Intake |  |  |
| <input type="checkbox"/> Other:       |  |  |

**Principal Development Components (related to scoping)**

- |   |   |
|---|---|
| <input type="checkbox"/> Access Road <ul style="list-style-type: none"> <li><input type="checkbox"/> construction</li> <li><input type="checkbox"/> abandonment/removal</li> <li><input type="checkbox"/> modification e.g., widening, straightening</li> </ul> <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"/> Channelling <input type="checkbox"/> Cut and Fill <input type="checkbox"/> Cutting of Trees or Removal of Vegetation <input type="checkbox"/> Dams and Impoundments <ul style="list-style-type: none"> <li><input type="checkbox"/> construction</li> <li><input type="checkbox"/> abandonment/removal</li> <li><input type="checkbox"/> modification</li> </ul> <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 type="checkbox"/> Fuel Storage <input type="checkbox"/> Topsoil, Overburden or Soil <ul style="list-style-type: none"> <li><input type="checkbox"/> fill</li> <li><input type="checkbox"/> disposal</li> <li><input type="checkbox"/> removal</li> <li><input type="checkbox"/> storage</li> </ul> | <input type="checkbox"/> Waste Management <ul style="list-style-type: none"> <li><input type="checkbox"/> disposal of hazardous waste</li> <li><input type="checkbox"/> waste generation</li> <li><input type="checkbox"/> sewage</li> <li><input type="checkbox"/> disposal of sewage</li> </ul> <input type="checkbox"/> Geoscientific Sampling <input type="checkbox"/> Trenching <input type="checkbox"/> Diamond drill <input type="checkbox"/> Borehole core sampling <input type="checkbox"/> Bulk soil sampling <ul style="list-style-type: none"> <li><input type="checkbox"/> gravel</li> <li><input type="checkbox"/> hydrological Testing</li> </ul> <input checked="" type="checkbox"/> Site Restoration <ul style="list-style-type: none"> <li><input type="checkbox"/> fertilization</li> <li><input type="checkbox"/> grubbing</li> <li><input type="checkbox"/> planting/seeding</li> <li><input type="checkbox"/> reforestation</li> <li><input type="checkbox"/> scarify</li> <li><input type="checkbox"/> spraying</li> <li><input checked="" type="checkbox"/> re-contouring</li> </ul> <input type="checkbox"/> Slashing and removal of vegetation <input type="checkbox"/> Soil Testing <input type="checkbox"/> Stream Crossing/Bridging <input type="checkbox"/> Tunnelling/Underground <input checked="" type="checkbox"/> Other: Quarrying |
|---|---|

**NTS topographic map sheet numbers:**  
85B

**Latitude / longitude and UTM system:**  
 Site A is located at 60°44.3770'N 115°14.4358'W and 60°44.3393'N 115°13.8135'W.  
 Site C is located at 60°44.1820'N 115°16.0147'W and 60°44.1794'N 115°15.3932'W.

**Nearest community and water body:**  
 The nearest community is Hay River NT and the nearest body of water is Great Slave Lake.

**Land Status (consultation information)**

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

**Transboundary/Transregional Implications**

- |   |  |   |                                |
|---|--|---|--------------------------------|
| <input type="checkbox"/> British Columbia | <input type="checkbox"/> Alberta       | <input type="checkbox"/> Saskatchewan                 | <input type="checkbox"/> Yukon |
| <input type="checkbox"/> Nunavut          | <input type="checkbox"/> National Park | <input type="checkbox"/> Inuvialuit Settlement Region |                                |
| <input type="checkbox"/> Wek'èezhii       | <input type="checkbox"/> Gwich'in      | <input type="checkbox"/> Sahtu                        |                                |

**Type of transboundary implication:**     
 Impact / Effect     
 Development

Public concern: \_\_\_\_\_  
 (Describe.)

**Physical - Chemical Effects**

<b>Impact</b>	<b>Mitigation</b>	<b>Location of condition</b>
1) <input checked="" type="checkbox"/> Ground Water <input checked="" type="checkbox"/> water table alteration	The use of heavy equipment creates the potential of equipment leaks and localized contamination of surface water/site runoff. Mitigation includes the requirement of a spill contingency plan and the immediate reporting of spills.	26(1)(g)
<input type="checkbox"/> water quality changes		
<input type="checkbox"/> infiltration changes		
<input type="checkbox"/> other:		
<input type="checkbox"/> N/A		

<b>Impact</b>	<b>Mitigation</b>	<b>Location of condition</b>
<b>2) Surface Water</b>		
<input type="checkbox"/> flow or level changes		
<input checked="" type="checkbox"/> water quality changes	The use of heavy equipment creates the potential of equipment leaks and localized contamination of surface water/site runoff. Mitigation includes the requirement of a spill contingency plan and the immediate reporting of spills. The impacts of spills can be reduced by having an appropriate, up-to-date Spill Contingency Plan and spill equipment in place and by training personnel in spill response. The Spill Contingency Plan and waste management practices are adequately described in the Application and are required under Permit conditions.	26(1)(e) 26(1)(g) 26(1)(m) 26(1)(i)
<input type="checkbox"/> water quantity changes		
<input checked="" type="checkbox"/> drainage pattern changes	Stockpiled granular material will be removed; this will likely not affect natural drainage patterns because this is a previously disturbed site. Areas used will be graded to match the terrain. No mitigation proposed.	n/a
<input type="checkbox"/> temperature		
<input type="checkbox"/> wetland changes/loss		
<input type="checkbox"/> other:		
<input type="checkbox"/> N/A		
<b>3) Noise</b>		
<input type="checkbox"/> noise in/near water		
<input checked="" type="checkbox"/> noise increase	Localized noise will increase during the operation of heavy equipment. No mitigation is proposed. The project will be short term and discontinuous.	n/a
<input type="checkbox"/> other:		
<input type="checkbox"/> N/A		
<b>4) Land</b>		
<input checked="" type="checkbox"/> geologic structure changes	By definition the act of quarrying aggregate results in the removal/alteration of a geological feature. Through proper grading and re-contouring, the impact can be minimized. Conditions have been included in the Permit regarding the handling of overburden so that it can be used for reclamation.	26(1)(o)
<input checked="" type="checkbox"/> soil contamination	The use of heavy equipment creates the potential for equipment leaks and localized contamination of soil. Mitigation includes requirements of a Spill Contingency Plan and the immediate reporting of spills. Conditions have been included in the Permit regarding the management of garbage, chemicals, and fuels.	26(1)(g) 26(1)(m) 26(1)(i)
<input type="checkbox"/> buffer zone loss		
<input checked="" type="checkbox"/> soil compaction and settling	This is a pre-existing quarry which has been previously stripped of overburden. No mitigation necessary.	n/a
<input checked="" type="checkbox"/> destabilization/erosion	Granular material will be removed during this operation. The Applicant should ensure the ground is capable to support vehicle movements so that the land is not disturbed. Conditions have been included in the Permit to prevent and control erosion.	26(1)(f)
<input type="checkbox"/> permafrost regime alteration		
<input type="checkbox"/> explosives/scarring		
<input checked="" type="checkbox"/> other:	A condition regarding accompanying the Inspector prior to the commencement of the land use operation has been included in the Permit; this may assist with identifying concerns the Inspector would have regarding the land, overburden, and/or vegetation.	26(1)(a) 26(1)(b) 26(1)(e)

N/A

<b>Impact</b>	<b>Mitigation</b>	<b>Location of condition</b>
<b>5) Non-renewable natural resources</b>		
<input checked="" type="checkbox"/> resource depletion	Granular material will be excavated from the site.	
<input checked="" type="checkbox"/> other:	Overburden may be removed initially to access granular material. The overburden will be preserved and used during re-contouring of the site after completion of operations. Conditions have been included in the Permit regarding the handling of overburden so that it can be reused for reclamation.	26(1)(o)

N/A

<b>Impact</b>	<b>Mitigation</b>	<b>Location of condition</b>
<b>6) Air/climate/atmosphere</b>		
<input checked="" type="checkbox"/> other:	The exhaust from the vehicles and equipment used will add to atmospheric loadings of pollutants. Vehicles and equipment will also create dust. No mitigation is proposed for this.	n/a

N/A

#### **BIOLOGICAL ENVIRONMENT**

<b>Impact</b>	<b>Mitigation</b>	<b>Location of condition</b>
<b>1) Vegetation</b>		
<input type="checkbox"/> species composition		
<input type="checkbox"/> species introduction		
<input type="checkbox"/> toxin/heavy accumulation		
<input type="checkbox"/> other:		
<input checked="" type="checkbox"/> N/A		

<b>Impact</b>	<b>Mitigation</b>	<b>Location of condition</b>
<b>2) Wildlife and Fish</b>		
<input type="checkbox"/> effects on rare, threatened or endangered species		
<input type="checkbox"/> fish population changes		
<input type="checkbox"/> waterfowl population changes		
<input type="checkbox"/> breeding disturbance		
<input type="checkbox"/> population reduction		
<input type="checkbox"/> species diversity change		
<input type="checkbox"/> health changes		
<input checked="" type="checkbox"/> behavioural changes	Wildlife may avoid the site due to noise. There is no mitigation provided but this may be beneficial as the habituation of animals should be avoided	n/a
<input checked="" type="checkbox"/> habitat changes / effects	Wildlife habitat may be altered during the quarrying of material. A condition to minimize habitat destruction has been included in the Permit.	26(1)(h)
<input type="checkbox"/> game species effects		
<input type="checkbox"/> toxins/ heavy metals		
<input type="checkbox"/> forestry changes		
<input type="checkbox"/> agricultural changes		

other:

N/A

**Interacting Environment**

**Impact**  
**1) Habitat and Communities**

**Mitigation**

**Location of  
condition**

predator-prey

wildlife habitat/ecosystem  
composition changes

The Applicant is to take all reasonable measures to prevent damage to  
wildlife and fish habitat.

26(1)(h)

reduction/removal of  
keystone or endangered  
species

removal of wildlife corridor or  
buffer zone

other:

N/A

**Impact**  
**2) Social and Economic**

**Mitigation**

**Location of  
condition**

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

There is little potential to impact burial sites or other sites with  
archaeological and/or historical value as this area has been previously  
disturbed. The Permit contains a condition regarding avoidance of known or  
suspected archaeological sites or burial grounds.

26(1)(j)

public concern

other:

N/A

**Impact**  
**3) Cultural and Heritage**

**Mitigation**

**Location of  
condition**

effects to historic property

increased economic pressure  
on historic properties

change to or loss of historic  
resources

change to or loss of

There is little potential to impact burial sites or other sites with

26(1)(j)

archaeological resources

archaeological and/or historical value as this area has been previously disturbed. The Permit contains a condition regarding avoidance of known or suspected archaeological sites or burial grounds.

- increased pressure on archaeological sites
- change to or loss of aesthetically important sites
- effects to aboriginal lifestyle
- other:
- N/A

- Pursuant to Schedule 4.1 of the **Northwest Territory Métis Nation** (NWTMN) Interim Measures Agreement, the MVLWB determined that written notice was given to the NWTMN and that a reasonable period of time was allowed for NWTMN to make representations with respect to the application.
- Pursuant to section 27, paragraphs (a) and (b) of the **Dehcho First Nations** (DCFN) Interim Measures Agreement, the MVLWB has determined that written notice was given to the DCFN, and that a reasonable period of time was allowed for DCFN to make representations with respect to the application.

**Preliminary Screener / Referring Body Information**

AANDC
Acho Koe Dene First Nation
CanNor NWT Region
Deh Cho Land Use Planning Committee
Deh Gah Got'ie Dene Council
Dehcho First Nations
Dene Nation
Ecology North
Enterprise Settlement
Environment Canada
Fisheries and Oceans Canada
Fort Providence Metis Council #57
Fort Providence Resource Management Board
GNWT - Department of Transportation
GNWT - Environment and Natural Resources
GNWT - Health
GNWT - ITI
GNWT - Lands
GNWT - MACA
GNWT - Prince of Wales Northern Heritage Centre
Gov of Canada
Gov of the NWT

Hamlet of Fort Liard
Hamlet of Fort Providence
Hay River Metis Council
Ka'a'gee Tu First Nation
Liidlii Kue First Nation (Ft Simpson)
Mackenzie Valley Environmental Impact Review Board
MVLWB
Nahanni Butte First Nation
Nahendeh Land & Environmental Services
National Energy Board
North Slave Metis Alliance
Northwest Territory Metis Nation
NWT Metis Nation
Parks Canada
Pehdzeh Ki First Nation (Wrigley)
Sambaa Ke Dene Band (Trout Lake)
Snap Lake Environmental Monitoring Agency - SLEMA
Tlicho Lands Protection Department
Town of Hay River
Transport Canada
TthedzehK?edeli First Nation (JMR)
Village of Fort Simpson
West Point First Nation
Workers' Safety and Compensation Commission

**Reasons For Decision**

(List all reasons and supporting rationales for preliminary screening decision)

**DECISION**

The Mackenzie Valley Land and Water Board (the Board) is satisfied that the preliminary screening of Application MV2013Q0017– ProCore Drilling Ltd., Hwy#5 km 34.1 has been completed in accordance with section 125 of the *Mackenzie Valley Resource Management Act* (MVRMA).

The Board is satisfied that communities and First Nations affected by the Application have been notified and provided adequate time to provide comment on the Application as required by land claim and self government agreements, the MVRMA, policy directions relating to Interim Measures Agreements, and any other applicable legislation and agreements.

Having reviewed all relevant evidence on the Public Registry, including the submissions of the Applicant, the written comments received by the Board and any Staff Reports prepared for the Board, the Board has decided that in its opinion:

- The proposed development will not have a significant adverse impact on the environment; and
- The proposed development is not a cause of public concern.

The Board is also of the opinion that the Application can proceed through the regulatory process and that any impacts of the development on the environment can be mitigated through the imposition of the terms and conditions in the attached Land Use Permit.

As a result, 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 Mackenzie Valley Land Use Regulations, has decided that this Land Use Permit be issued subject to the terms and conditions contained therein.

<b>Preliminary Screening Decision</b>	
<input checked="" type="checkbox"/>	<b>Outside Local Government Boundaries</b>
<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"/>	<b>Wholly Within Local Government Boundaries</b>
<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

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\_\_\_\_\_

**Signatures**



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\_\_\_\_\_