

MARKLAND PAVING LTD.

GOOSE BAY AREA QUARRY PERMIT – DOME MOUNTAIN ROAD

**Environmental assessment
Registration document**

Submitted by:

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1.0 Name of undertaking

Dome Mountain road Quarry

2.0 Proponent

2.1 Name of corporate body

Markland Paving Ltd.

2.2 Address

1825, Avenue du Phare Ouest
Matane (Québec)
G4W 3M6

2.3 Principal contact person

Éric Côté, director

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3.0 The undertaking

3.1 Nature of the undertaking

The proposed existing quarry is 6.24 hectares in size. It will be developed for the purpose of rock removal. File number 711:12670.

3.2 Purpose/rationale/need for undertaking

The main purpose and rationale for the proposed quarry is to extract rock in a sustainable manner. The resources will be utilized for the purpose of supplying civil construction aggregates for the public and private sectors in the Goose Bay area and the surrounding communities.

4.0 Description of the undertaking

4.1 Geographical location

The proposed project area is located roughly 6.5 km west of Goose Bay airport on Dome Mountain road. See figure 1 and 2. It is located near an existing quarry used by the town of Happy Valley Gosse-Bay. See figure 3. There are no municipal boundary and the site is on undeveloped Crown land. There is no residences or infrastructures in the vicinity as we can see on the figures.

4.2 Physical features

4.2.1 Project site description

The proposed quarry is located on a topographical high and the peak at 145m is located within the area. There is an existing road that will be used to access the site. An existing quarry used by the town of Happy Valley Goose-Bay is located on the west border. The Dome Mountain road is located at the south.

4.2.2 Existing biophysical environment

The vegetation on the south side of the area consist of low-lying bush and scattered coniferous trees. The north area is generally wooded with coniferous and deciduous trees. There are no waterbody crossing the site and Alexander Lake is located at roughly 900 meters west. The natural slope drains South-Est to a wetland located at 780 m from the corner of the proposed site.

4.3 Construction and operation

4.3.1 Site access

All access to the site will be by a 150m long and 10m wide gravel road used only for that purpose. A locked gate will restrict entry to prevent potential safety issues. The access will be gated at the point where it meets Dome Mountain road. The existing road will not need any upgrades as the result of this existing quarry.

4.3.2 Site clearing

On the south side of the area, there is not much trees to be harvested. The top soil and grubbing will be removed and stockpile for rehabilitation. Any merchantable timber will be cleared by a specialised subcontractor under a harvesting permit if required on the north side of the area.

4.3.3 Quarry development and operation

Typical rock quarry methods will be used at the site and performed by heavy equipment. Blasting will be completed through a certified local subcontractor one or two operation per year. Crushing and screening will be done to produce the required material for 2 years in advance and the stockpile will stay on site until utilisation. The operation should be conducted in the summer months mostly. No permanent building or structure will be set on site. Production will vary depending on contract requirements for this sector.

4.4 Potential sources of pollution during construction and operation

The construction and operation of a quarry consist mostly of earth moving activities. Potential sources of pollution are noise disturbance, waste water, erosion, fine grained particles, air emission and release of petroleum hydrocarbons.

Noise level are not expected to exceed usual limits for these activities. Workers will have the proper hearing protection. There should be no noise disturbance to others as this site is pretty remote.

Waste and waste water will be collected and disposed of per the environmental Act. Containers and holdings tanks will be emptied on an as-required basis.

Erosion and emission of fine-grained particles will be controlled by filtering ditching technique such as check dams, hay bales or silt fencing as required on site.

All equipment on site will have emission-control equipment for air pollution. Dust will be kept at minimum by application of water if necessary. Site clearing will be kept at minimum for production to reduced overall pollution impacts.

Fuel will be brought in as required by a petroleum product company. No permanent storage on site is to take place. Spill kit will be available on site for containment and clean-up of any hydrocarbon leak.

4.5 Potential resources conflicts

Except for the restriction of access, there is no possible conflict as the area is not known to be used for recreational purpose and no ATV trail was present inside the area.

4.6 Occupations

Site construction and operation for the quarry will likely include de following occupation, classified as per the National Occupation Classification, and equipment.

- 1 Foreman/supervisor – 8221
- 1 to 5 Heavy equipment operator - 7421
- 1 to 2 Truck drivers - 7511

4.7 Reclamation and closure

Upon completion of project, the quarry will be rehabilitated as per permit guide line by Department of Natural resources. Quarry face will be sloped and organic material and grubbing will be spread and seeded to promote natural revegetation.

5.0 Schedule

For this project the schedule is as follow:

Registration document and government review	February to Mai 2020
Operation	June 2020

6.0 Funding

Funding for construction and operation will be provided entirely by the proponent.

7.0 Submission

2020-02-04

Date



Mr. Eric Côté, Director of Markland Paving Ltd

Figure 1: Projct location map

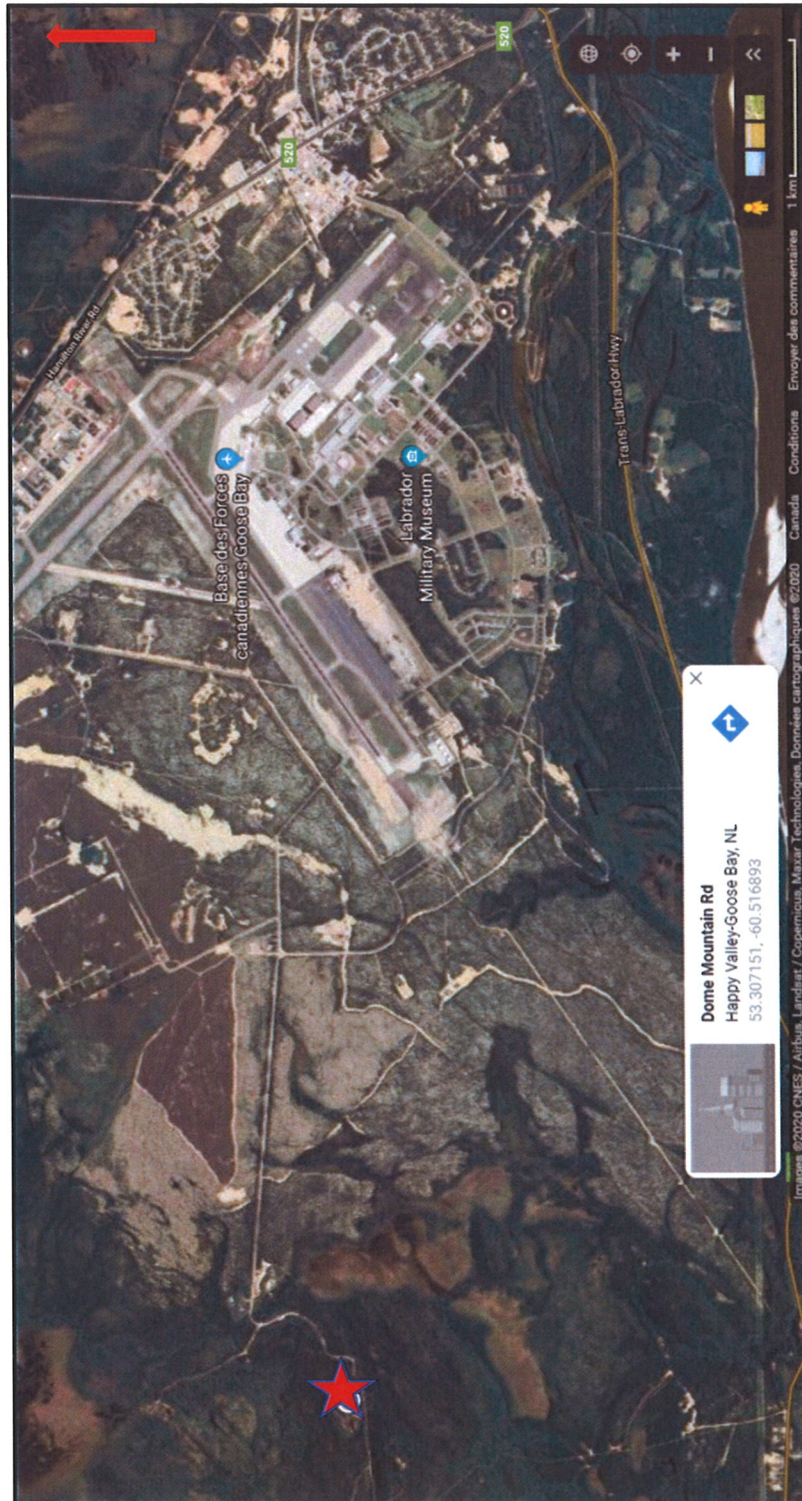


Figure 2: Distances

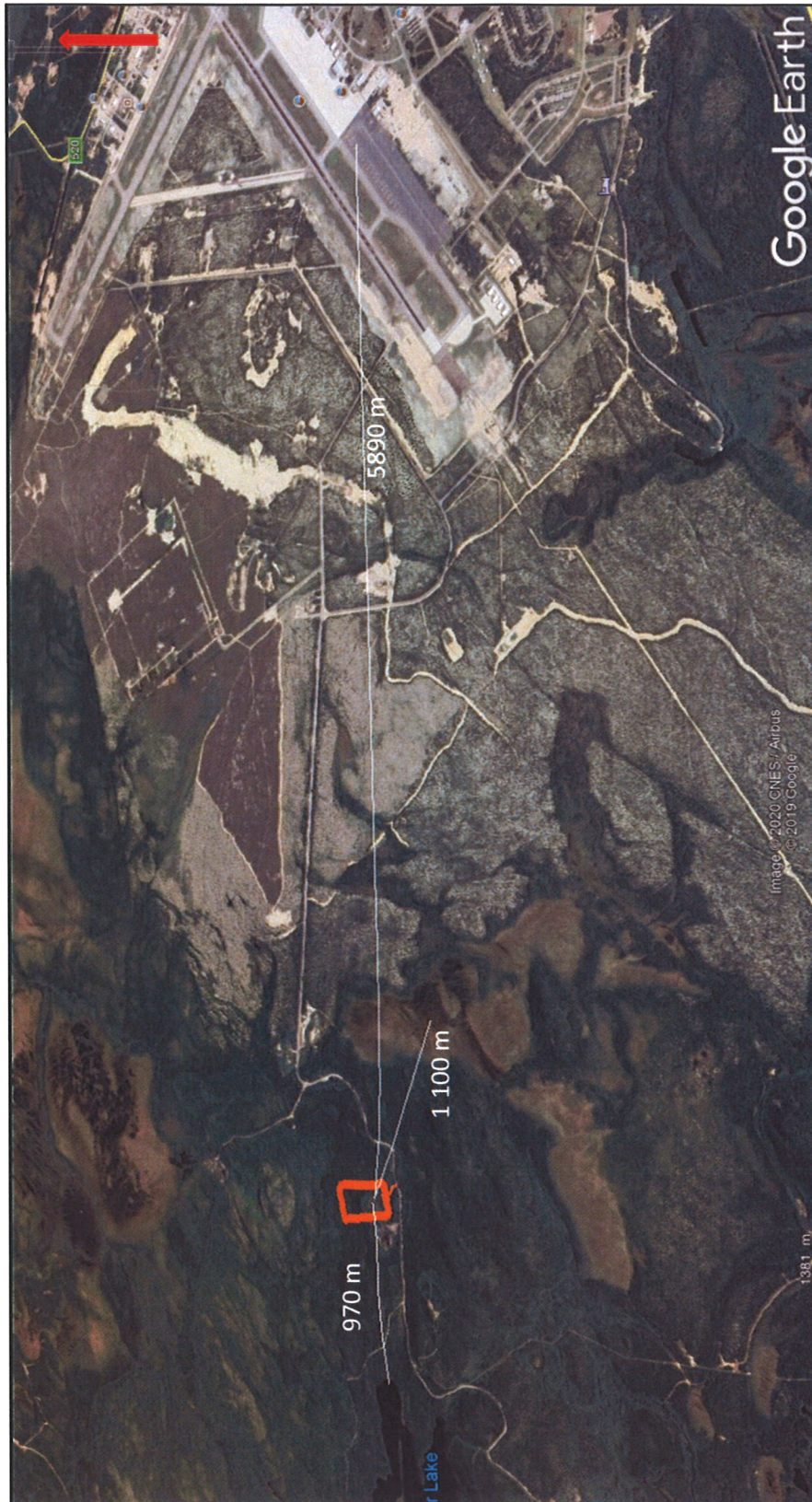


Figure 3: Small scale view of site

