Quarry, Mobile asphalt plant, Equipment Yard and Storage Garage Trans Canada Highway, 8.5 KM west of Springdale Jct, NL.

Department of Environment and Conservation

File Ref No. 200.20.2475

Prepared for.

J & J Paving Limited.

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# **1.0 NAME OF UNDETAKING**

Quarry, Mobile asphalt plant, equipment yard and storage garage

Trans Canada Highway, 8.5 KM west of Springdale Jct, NL.

# 2.0 PROPONENT

# 2.1 Name of Corporate Body

J & J Paving Limited.

# 2.2 Address

P.O. Box 428 7A Tipping place

Corner Brook NL

## A2H 6E3

# 2.3 Chief Executive Officer

Junior England

President

P.O. Box 428 7A Tipping Place

Corner Brook NL

A2H 6E3

# 2.4 Principle Contact Person

Junior England

President

P.O. Box 428 7A Tipping Place

Corner Brook NL

A2H 6E3

### **3.0 THE UNDERTAKING**

### 3.1 Nature of the Undertaking

This proposed project involves the development of a 6 hectares gravel, sand and rock pit located near Springdale Jct for use as asphalt aggregate projects in central NL.

### 3.2 Purpose for the Undertaking

The purpose of this project is to remove gravel, sand and rock for future use as aggregate in asphalt construction projects.

### **4.0 DESCRIPTION OF THE UNDERTAKING**

### **4.1 Geographic Location**

For site plan please see figure 1

The proposed project is located approximately 8.3 km west of Burnt Berry pond, NI. The quarry

is located on NTS map 12H08.

Entrance location can be found on NTS map 12H08

----UTM zone 21 550503E 5478404N map datum NAD27

See Figure 2 and Figure 3

Figure 1





Figure 2



Figure 3

## **4.2 Physical Features**

# 4.2.1 Project Site Description

The gravel, sand and rock pit will be the primary feature associated with this pit.

There will also be a scale house, mobile asphalt plant and storage shed/garage on the site. This site will

be accessed by existing access from trans Canada Highway

### 4.2.2 The Present Environment

The proposed 6 hectares quarry is an extension to an existing quarry area in central NL.

The site is surrounded by black spruce and birch trees. Moss , laurel and kalmia are

present in areas within the boundary of the proposed quarry.

Previous use of this area as a quarry goes back over 50 years to the 1965 construction of the Trans Canada Highway. The area has previously had temporary asphalt plants set up many times over decades of highway construction and maintenance.

Wildlife often found in these areas include black bear, moose, snowshoe hare, Fox and coyote.

### **4.3 CONSTRUCTION**

The construction phase of this site development will primarily consist of :

. Clearing and Grubbing

. Pit development and associated control measures

. mobile asphalt plant, silo and conveyor system as well as weigh scales and office building are already on

leased portion of this site.

Site has existing gravity flow water supply and water settling tanks on leased area of the quarry

The activities on the leased portion have been approved by Dept of Natural Resources Quarry permit number 132382 and Development permit number 189315

### 4.3.1 Site Access

Site access will be via the existing quarry pit road access presently being leased and operated by

J & J Paving Limited

There will be no new access or road construction

### 4.3.2 Clearing and Grubbing

All timber of size suitable for salvage will be removed and utilized. Grubbed overburden material will be separated and stockpiled for future site remediation.

### 4.3.3 Development

The total pit has an area of approximately 6 hectaress. The proponents plan on first operating the Southern side of the pit and work Northward to eventually use the full pit property. As mentioned, overburden material suitable for later use will be separated and stockpiled until needed for use in pit closing and site remediation.

### 4.4 Potential Sources of Pollution during Construction

The construction phase of this development will involve overburden clearing via use of heavy equipment. This activity has inherent potential for pollution. Potential sources of pollution include noise, waste, air emissions and hydrocarbon release from heavy equipment.

### 4.4.1 Air/Noise Pollution

There exists the potential for an increase in dust creation and noise emission during the pit development. As with the existing pit, both potential pollution events are kept minimal with the proper use of mitigating measures such as:

- . Machinery will be properly muffled
- . Machinery will comply with all provincial and municipal noise bylaws
- . Machinery will have appropriate emission control mechanisms
- . Machinery will only travel on approved roads within the pit boundary
- . Construction will be done during daylight hours to limit impact upon any nearby wildlife

### 4.4.2 Domestic Wastes

There exists the potential to create domestic waste during construction . The potential impact upon the immediate environment will be kept to a minimum by adhering to the Newfoundland and Labrador Waste Management Regulations.

### 4.4.3 Hydrocarbon Release

Pit activities could possibly result in the accidental spilling of hydrocarbons such as diesel fuel, engine oil, and hydraulic fluid. To reduce the likelyhood, and subsequent impact if a spill did occur, the following mitigation measures will be in effect.

. Emergency spill kits will be onsite at all times

. Servicing of machinery will be done offsite and at appropriate locations

. All employees will receive spill response training prior to operations

#### 4.5 Operation

This pit operation will utilize standard excavation methods to collect the materials needed by J & J Paving Limited. Operations within the pit will include the excavation and loading of granular materials, crushing and screening of aggregates as well as the transportation of these materials. These materials will be used to manufacture asphalt during the construction season. Materials such as overburden and over-sized rock will be stockpiled for later use.

Reject asphalt will be stored at Eastern end of existing pit for future recycling.

Typical equipment found in a quarry / plant operation will include:

- . Dump trucks
- . Front-end loaders
- . Excavators
- . Crusher/screening and mobile asphalt plant

A quarry of this nature will be in operation from May until October.

### 4.6 Potential Sources of Pollution during Operation

The potential sources of pollution during operating activities are similar to those

during the construction phase. They include air, noise, domestic waste and hydrocarbon release.

### 4.6.1 Air/Noise Pollution

There exists the potential for an increase in dust creation and noise emission during the pit development. As with the existing pit, both potential pollution events are kept minimal with the proper use of mitigating measures such as:

- . Machinery will be properly muffled
- . Machinery will comply with all provincial and municipal noise bylaws
- . Machinery will have appropriate emission control mechanisms
- . Machinery will only travel on approved roads within the pit boundary
- . Construction will be done during daylight hours to limit impact upon any

nearby wildlife

### 4.6.2 Domestic Wastes

There exists the potential to create domestic waste during the construction of this

pit. The potential impact upon the immediate environment will be kept to a

minimum by adhering to the Newfoundland and Labrador Waste Management

Regulations.

Sewage facilities are already existing on the leased portion of the quarry. This consists of septic system with holding tank.

### 4.6.3 Hydrocarbon Release

Pit operations could possibly result in the accidental spilling of hydrocarbons such as diesel fuel, engine oil, and hydraulic fluid. To reduce the likelyhood, and subsequent impact if a spill did occur, the following mitigation measures will be in effect.

- . Emergency spill kits will be onsite at all times
- . Servicing of machinery will be done offsite and at appropriate locations
- . All employees will receive spill response training prior to operations

### 4.7 Potential Resource Conflicts during Operation

The proposed quarry site is 12 km East of nearest community, which is Sheppardville , NL. and 14 km west of Springdale As such, the site will not have any effect on these residential area.

Environmental protection measures will include:

- . Waste materials will be removed daily
- . Erosion prevention will be enabled by only clearing the land as needed.
- . Spill kits will be present and maintained by staff
- . Spill response training will be provided for staff working on site

### 4.8 Occupations

Site construction and operation will involve the following occupations as classified

by the National Occupations Code (NOC) 2011. The positions will be filled by direct hire.

### 4.8.1 Construction

Two heavy equipment operators(NOC 7521) for a period of 2 weeks.

### 4.8.2 Operation

The operation of the quarry will be carried out by two heavy equipment

operators (NOC 7521) and three truck drivers (NOC 7511) for approximately 20 weeks annually.

### 4.9 Project – Related Documents

The operation and expansion of this quarry will be done by J & J Paving Limited as previously approved by Dept of Natural Resources on Quarry permit number 132382 and Development permit 189315

## 5.0 Approval of the Undertaking

The following permits will/may be required in order for this project to proceed.

. Quarry Materials Act and Quarry Minerals Regulations: Quarry

Permit----- Provincial Government.

. Environmental Protection Act/Assessment Regulations: Permit to Proceed.

Provincial Government.

### 6.0 Schedule

Document submission/registration -----May 2016

Government Review/Decision -----July. 2016

Pit Construction/Operation ---July, 2016

## 7.0 Funding

Funding for this project will be provided solely by J & J Paving Limited.

### 8.0 Submission

Junior England May 27, 2016

President

J & J Paving Limited