

# **EDWARD COLLINS CONTRACTING LIMITED NORMAN'S POND AREA QUARRY PERMIT**

## ***Environmental Assessment Registration Document***

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July 30, 2020

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## **1.0 NAME OF UNDERTAKING**

350m West of Norman's Pond Quarry Permit Application

- Quarry Permit Identification
  - File 711:12728 covering 2.9 ha

## **2.0 PROPONENT**

### **2.1 Name of Corporate Body**

Edward Collins Contracting Limited

### **2.2 Address**

P.O. Box 51  
Jerseyside, NL  
Placentia Bay  
A0B 2G0

### **2.3 Chief Executive Officer**

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### **2.4 Principal Contact Person**

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### **3.0 THE UNDERTAKING**

#### **3.1 Nature of the Undertaking**

The proposed project is a 2.9 ha quarry permit (File 711:12728) that will be developed as a quarry to source surficial aggregate and subsurface bedrock resources for use at the adjacent soil treatment facility.

#### **3.2 Purpose/Rationale/Requirement for the Undertaking**

The main purpose and rationale for the proposed 2.9 ha quarry area is to develop the quarry as a source of coarse aggregate material to be used in an adjacent contaminated soil treatment facility owned and operated by Universal Environmental Services, an Edward Collins Contracting (ECC) affiliated company. The aggregate is required for the treatment and processing of soils contaminated with hydrocarbons. A 16.0 ha quarry permit was originally applied for, but due to zoning restriction within the City of Corner Brook, the permit area was reduced to 2.9 ha covering an area that is zoned Solid Waste/Scrap Yard whereby the quarry development related to the soil treatment facility falls under a Discretionary Use Class. This application area reduction will allow ECC to meet their current immediate needs with the remainder of the initial quarry permit to be pursued at a later date.

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

#### **4.1 Geographic Location**

The proposed project is located roughly 6.5 km due south of the Corner Brook city center on NTS Map Sheet 12A/13 (**Figures 1 to 3**). The quarry permit area is situated entirely within the Municipal Boundary of the City of Corner Brook within an area rezoned from Rural to Solid Waste/Scrap Yard in 2017.

Sensitive human receptors are shown on **Figure 4** and include private properties/houses, the closest of which is located 4.0 km from the project boundary.

#### **4.2 Physical Features**

##### **4.2.1 Project Site Description**

The proposed project area is located near the Trans-Canada Highway (TCH) and at its closest point is 120 m to the northwest of it. The project is approximately 2.6 km southwest of the intersection of Highway 450 and the TCH. Topography surrounding the area is relatively flat with the quarry area located at an elevation of approximately 290 m above sea level and an over 10 m rise in elevation within the quarry permit area. The affiliated contaminated soil treatment facility site is immediately adjacent to the project and northeast of it; the two projects share a common boundary (see **Figure 3**). The primary physical feature of this project will be the quarry itself.

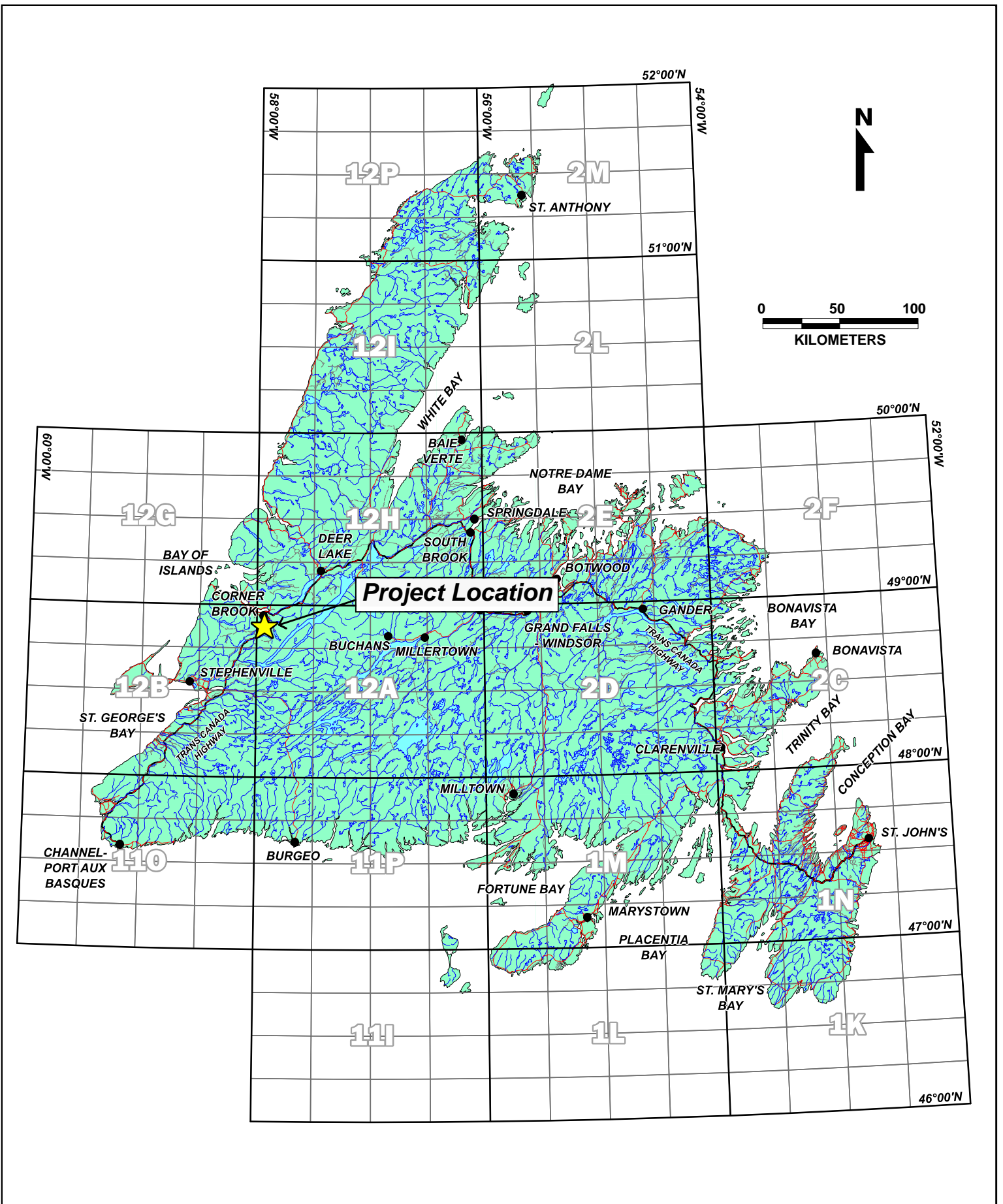


FIGURE 1: PROJECT LOCATION MAP (N.T.S. 12A/13)





Figure 2: Quarry Permit Location Map



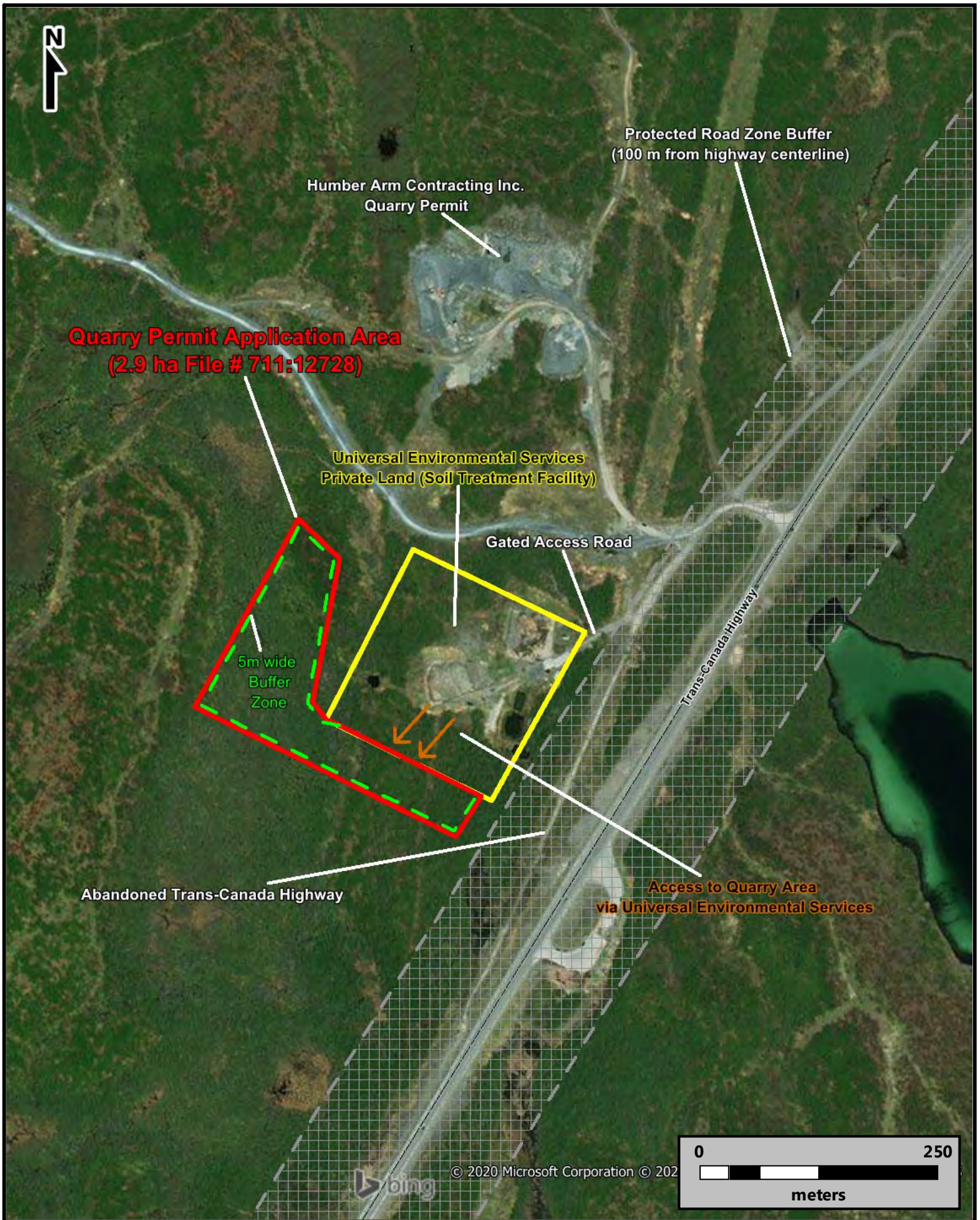


Figure 3: Detailed Quarry Permit Location Map



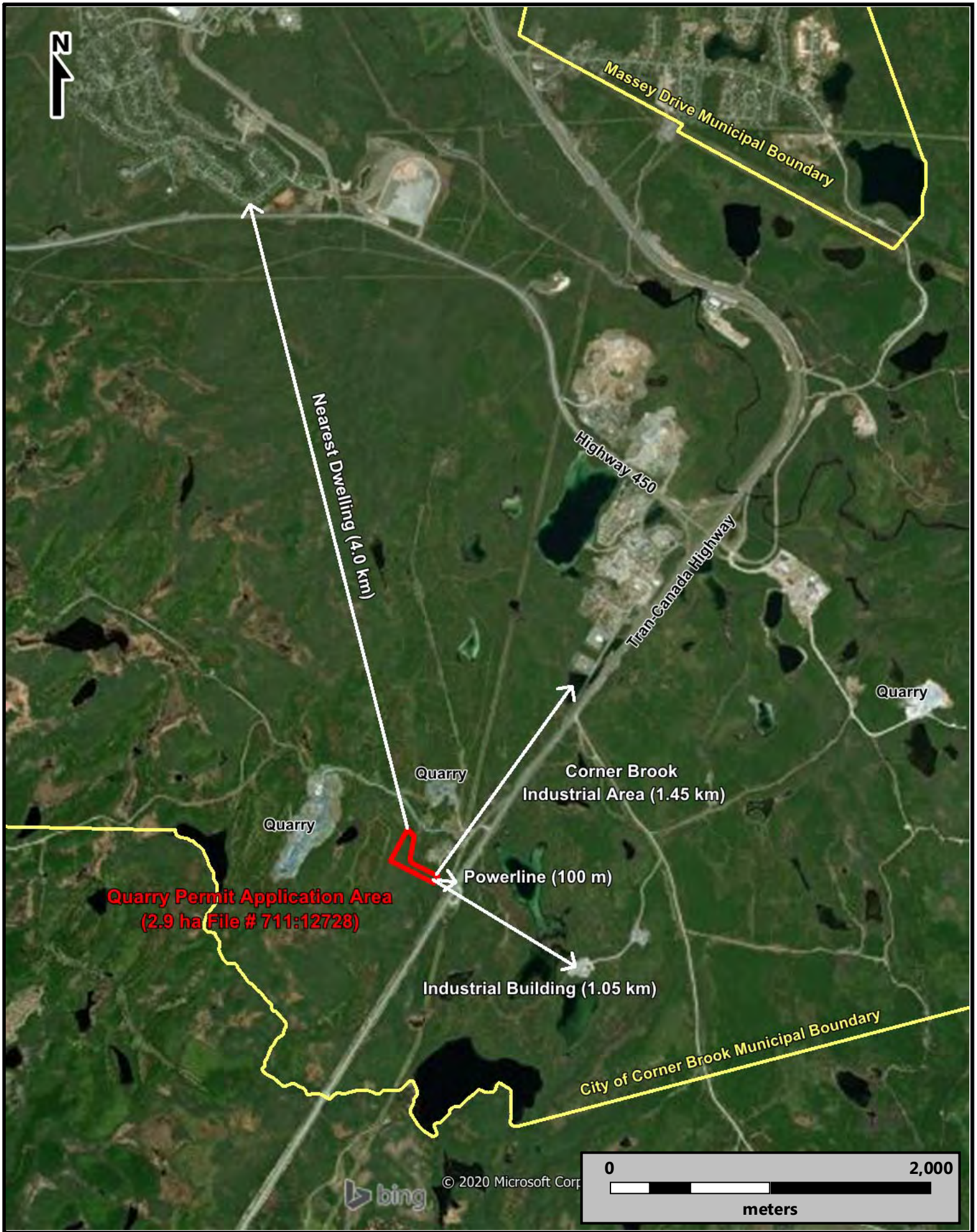


Figure 4: Receptors Location Map

## **4.2.2 Existing Biophysical Environment**

The proposed quarry site is located within the *Corner Brook subregion* of the *Western Newfoundland Forest Ecoregion*. This region is characterized mostly by forested rolling hills and underlying limestone bedrock. The climate is characterized by warm summers and cold winters with annual average rainfall of 1,200 mm and annual average snowfall of 2 to 4 m. Forested areas consist mostly of balsam fir with floor covering consisting typically of wood ferns. Elevation in the immediate area ranges from 280 to 310 m.

The closest body of water is a small pond located 210 m south of the project on the opposite side of the Trans-Canada Highway. Also, a small pond is located 250 m Northwest of the Western permit boundary. General drainage of the area is directed towards the Bay of Islands to the Northwest.

## **4.3 Construction and Operation**

The construction aspect of the proposed project will consist of clearing the site from trees and grubbing. This process will be gradual in a phased approach and in conjunction with the advancement of the development aspect of the project.

### **4.3.1 Site Access**

Site access will be through the adjacent soil treatment area. The already present access will be extended to the quarry permit area through the private land held by Universal Environmental Services (**Figure 4**). A locked gate is present and will restrict entry into the quarry, preventing potential safety issues and illegal dumping. Access to the soil treatment area is gained via a gravel road (abandoned TCH) that intersects the TCH 2 kilometers south of the juncture with Highway 450 and the TCH. The access to the soil treatment facility is located 400 m along the abandoned portion of the TCH (**Figures 2 and 3**).

### **4.3.2 Site Clearing**

Site clearing will be done in a phased approach. Any merchantable timber will be cleared by manpower and handheld chainsaws and will be harvested under a cutting permit issued by the Department of Fisheries and Land Resources. The wood will be used locally for firewood or be sent to the Corner Brook Pulp and Paper mill in Corner Brook for use as pulp or hog fuel. Surficial soils, subsoils and grubbing will be stripped and windrowed to the permit boundary. This windrowed material will be used to construct perimeter berms as required.

### **4.3.3 Quarry Development and Operation**

The location of the 2.9 ha proposed quarry area directly adjacent to the contaminated soil treatment facility was chosen for the efficiency of operations by minimizing the transportation distance of the processed aggregate resources. Development of the quarry will expand from the shared border between the soil treatment facility and the quarry towards the West and to the North. Annual production from the site is anticipated to be approximately between 500 to 2,500 m<sup>3</sup> per year. Development activities to be undertaken will consist of the gradual removal and stockpiling of organics to the perimeter of the site, subsequent to tree removal. Operational activities will consist of pit run removal of surficial aggregate resources and subsequently quarrying of rock resource by drilling, blasting and ripping. This will be performed using heavy equipment such as excavators and front end loaders. Processing activities will include crushing and screening of surficial aggregates and rock as required. Typical quarrying activities will take place between May and December of each year but will ultimately be dictated by the timing of seasonal spring melt and the onset of winter conditions. Quarrying activity will be intermittent depending on aggregate requirements for the soil treatment facility.

Blasting will be completed through a certified third-party subcontractor capable of producing the required rock size per blast. No quarry benches will exceed 10 m in height. The generally small-scale volume requirements will minimize noise, dust and potential safety concerns during blasting. All blasting will adhere to the Government of Newfoundland and Labrador's Occupational Health and Safety Regulations under the Occupational Health and Safety Act and more specifically Part XIX pertaining to General Blasting. Blasting will also follow the Standard Terms and Condition's as per the issuance of a Quarry Permit by the Department of Natural Resources.

### **4.4 Potential Sources of Pollution During Construction and Operation**

The construction and operational phases of the development will utilize equipment such as chainsaws, front end loaders, excavators, drilling equipment and a crusher and screener setup. This equipment represents a potential source of noise disturbance, exhaust emissions, the potential release of petroleum hydrocarbons, dust, domestic waste, and general refuse. Also, construction and operational activities introduce the possibility of erosion and transport of fine-grained particles such as clay and silt to nearby water bodies.

Air pollution will be controlled by having all equipment on site fitted with the appropriate emission-control equipment, and dust will be kept at a minimum by the watering of short



internal transportation roads if required. Small scale drilling and blasting will be completed reducing dust produced during blasting. Bore holes will be filled with crushed stone to control the dust produced. With a maximum annual demand estimated at 2,500 m<sup>3</sup> and considering the available surficial aggregates, blasting is expected to occur once every 2 to 3 years at a blast volume of approximately 5,000 m<sup>3</sup>. If required crushers and screeners will be fitted with water suppression equipment to reduce dust. Water would be brought to site via a water truck if required.

Noise levels are not anticipated to reach levels problematic to the general public since no dwellings or public places are located close to the project. Workers will have the proper hearing protection and the work site, as noted above, is a controlled work environment.

Domestic waste generated during construction will be collected and disposed of in accordance with the Waste Material Disposal Act. There is no need for additional portable toilets inside the proposed quarry boundaries as facilities are already present within the soil treatment area.

Fuel will not be stored on site but will be brought in as required by a petroleum product service company. The handling of petroleum products on site will comply with the Storage and Handling of Gasoline and Associated Products Regulations. Complete and regularly checked emergency spill kits will be available on site at all times for containment and cleanup of any hydrocarbon leaks. Any leaks or spills in excess of 70 liters will be reported immediately to the Environmental Emergency Telephone Line and will be cleaned up immediately.

The erosion and transport of fine-grained particles during construction and operational activities will be controlled by using appropriate mitigating measures such as erosion control ditches, hay bales, and silt fencing. Site runoff will ultimately be directed towards vegetated areas, within the soil treatment area, acting as a filter for fine particles (See **Section 4.5** below).

#### **4.5 Potential Resource Conflicts During Construction and Operation**

Potential resource conflicts during operations and aspects to be addressed with this undertaking are related to the visual aspect of the quarry for individuals travelling on the TCH, sediment erosion and control within the quarry, and impacts on wildlife. Possible dust related concerns were noted above in **Section 4.4**. The project is located beyond the required 30 m buffer from any water bodies, waters course and wetlands that appear on the 1:50,000 NTS map sheet. Although sediment erosion and contamination of water

bodies is not considered a potential problem, some design considerations are warranted as preventative measures:

- The site is located 120 m from the TCH. A tree screen currently present between the project and the TCH blocks the view from the highway and will be left in place. If the site should ever become somewhat visible from the highway, berms will be constructed high enough so that site activity remains screened.
- Within the proposed 2.9 ha area, a 5 m wide buffer will be left inside along all permit boundary where no resources will be excavated (see **Figure 3**). Berms constructed from the windrowed organics will be placed within the 5 m buffer area and will serve as additional protection against sediment runoff.
- The pit floor will be kept lower than the perimeter berms where present as it progresses so as to contain precipitation water within the quarry site and limit potential visual impacts.
- Gradual clearing of trees during quarry development will reduce the overall disturbed footprint as oppose to complete clearing. This will greatly reduce the exposed mineral soil and reduce erosion and transport of fine-grained particles.
- Should water runoff become a problem, erosion and sediment control measures in line with industry best management practices will be utilized. This will include silt fencing, hay bales and erosion control ditches to prevent drainage into a body of water. Also, a small settling depression may be constructed to temporarily hold water within the quarry and allow for suspended sediment to deposit prior to water being released into vegetated areas. Site water will be directed along drainage ditches with check dams towards the adjacent soil treatment area.
- In respect to wildlife and their habitat, the site will be developed and be operated following the established legislation and guidelines of the *Wild Life Act (CC. 96-809)*, and any encounter with wildlife shall follow the regulations stated in this Act.

## 4.6 Occupation

The occupations required for the proponent's site are listed below and classified as per the National Occupational Classification (2011):

### **Construction**

- 1 Quarry Supervisor (8221)
- 2 Heavy Equipment Operator – Loader/Excavator (7521)
- 3 Logging and Forestry Laborer (8616)

## **Operation**

- 1 Quarry Supervisor (8221)
- 2 Heavy Equipment Operators – Loader, Excavator, Crushing/Screening (7521)
- 1 General Labourer (84)

Operation of the quarry will necessitate approximately 4 full time employees when active, some of the employees will be utilized to both clear the quarry site area (Construction Phase) and extract/process material (Operational Phase). Dump trucks are not required as materials can be transported by loader within the closed work environment.

All required personnel will be hired and paid directly by Edward Collins Contracting Limited.

## **4.7 Reclamation and Closure**

Upon completion of the project, the quarry will be rehabilitated to within the Department of Natural Resources' quarry permit guidelines. Quarry faces will be resurfaced to implement 30-degree sloping. Subsequently, the previously windrowed and preserved organic material that was stripped during the construction phase will be re-spread to promote natural revegetation. Also, once the quarry reaches a development phase that will not require additional expansion, then progressive reclamation will begin to allow for revegetation of the site as quickly as possible.

## **5.0 APPROVAL OF THE UNDERTAKING**

**Table 1** contains a list of referral agencies, responses received, and possible permits required for the project, some of which are already in progress.



**Table 1: Referral Agencies, Responses and Possible Permits Required**

<b>Department/Regulatory Agency</b>	<b>Status</b>	<b>Possible Required Approvals/Permits</b>
Works, Services & Transportation (Corner Brook)	No Response as of July 26, 2020	
Tourism, Culture, Industry and Innovation -Tourism	Approved	
Tourism, Culture, Industry and Innovation -Provincial Parks	Approved	
Tourism, Culture, Industry and Innovation -Historic Resources	Approved	
Government Service Center (Service NL) (Corner Brook)	Conditional Approval	Project Outside Protected Road Zone
Fisheries and Land Resources -Crown Lands	Approved	
Fisheries and Land Resources -Agriculture	Approved	
Fisheries and Land Resources -Fisheries and Aquaculture	Approved	
Fisheries and Land Resources -Natural Areas	Approved	
Fisheries and Land Resources -Wildlife	Conditional Approval	
Fisheries and Land Resources -Forestry Resources & Agrifoods	Approved	Operating Permit Commercial Cutting Permit
Fisheries and Land Resources -Land Management	Approved	
Municipal Affairs and Environment -Water Resources Management Division	Conditional Approval	Water Use Not Required (day to day operations)
Municipal Affairs and Environment -Environmental Assessment Division	Project Registration Required	
Municipal Affairs and Environment -Provincial Planning	Conditional Approval	Development Permit (from City of Corner Brook)
Natural Resources - DNR (Lands Division) -Quarry Materials	Conditional Approval	Quarry Permit
Natural Resources Energy Branch	Approved	
Corner Brook Pulp & Paper	Approved	Compensation Provided
City of Corner Brook	Conditional Approval	Land Rezoned Development Approval

## 6.0 SCHEDULE

The proposed schedule for this project is as follows:

Submission of Registration Document:	July 2020
Review of Submission Document by Government:	August/September 2020
Commencement of Construction and Operations	September/October 2020

## 7.0 FUNDING

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

## 8.0 LIMITATIONS

This environmental registration document was prepared by NCD Consulting Ltd. in consultation with Edward Collins Contracting Limited for their use under the terms defined in a written contract between the two parties. The information included in this document was provided by the client and relates to the scope of this project exclusively. NCD Consulting Ltd. has worked with the client and utilized NCD's combined knowledge in quarry development and potential environment related concerns to, as accurately as possible and with the information available, layout the development of the site. Edward Collins Contracting is ultimately responsible for executing the commitments made in this document.



Name: Mr. Francis Collins  
Position: President  
Edward Collins Contracting Limited

July 30, 2020  
Date