Turf Point Resources Ltd

Aggregate Quarry Permit

Environmental Assessment

Registration Document

Submitted by:

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1.0 NAME OF UNDERTAKING

Aggregate Quarry Permit

- Quarry Permit Identification
  - File 71113081 covering 6.0 ha
- Environmental Assessment Registration Identification
  - File Reference No. 200.20.3242

2.0 PROPONENT

2.1 Name of Corporate Body

Turf Point Resources Ltd.

2.2 Address

PO Box 15
Robinsons, NL
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2.3 Chief Executive Officer

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3.0 THE UNDERTAKING

3.1 Nature of the Undertaking

The proposed project, referred to as the aggregate quarry, is a 6.0 ha quarry permit application area (File# 71113081) located Southeast of the community of Flat bay on Route 403. The site will be developed for its gravel and backfill aggregates resource under a quarry permit while primarily producing aggregate products for use in the construction industry.

3.2 Purpose/Rational/ Requirement for the Undertaking

The main purpose/rational of this project is to produce backfill material for the maintenance of our private haul road. This roadway extends from the producing ACE mining lease to our ship loading facility in St Georges. Access to the 6.0 ha project area will be obtained through the currently established access route to Turf Point Resources quarry permit (File #7119753) to the south east. This route is also used to access the ACE Gypsum mine. (Mining Lease #239). This Route is shown in Figure 5: Proposed Route for Project.

4.0 DESCRIPTION OF THE UNDERTAKING

4.1 Geological Location

The project is located roughly 4.0 km southeast of the community of Flat Bay, on NTS Map Sheet 12B/07 in the historically developed and exhausted mine area known as Domtar Gypsum mine. (Figures 1 to 3). The project area is on crown land near three active mining leases and one active quarry site. Receptors near the project are shown on Figure 1 as well as in Figure 4. The single sensitive human receptor near the project is a private residence located ~1.51km to the northwest of the project boundary, towards the community of Flat Bay. There is one apartment complex that is also ~1.1km to the north of the project area.

4.2 Physical Features

4.2.1 Project Site Description

The 6.0 ha quarry permit application area is situated in the former Domtar quarry area which has undergone the industrial extraction of gypsum aggregates for several decades. The gypsum mineral potential within the proposed area has been exhausted of its gypsum potential. Quarry leases adjacent and quarry sites southwest are present as depicted on figure 1. The quarry area is located ~160m northwest from pockets of standing water that was an existing quarry that has been let fill with water. The quarry site is beyond a 30m distance from all waterbodies/watercourses (wetlands) as required by the Water Resources Management Division of the Department of Environment and Climate Change under the Government of Newfoundland and Labrador. The Flat Bay scheduled salmon river is over 1.70km from the nearest quarry

boundary. The distance from this river and the many terrain obstructions will create a barrier to prevent any quarry operations impacting this waterbody. Figure 5: Waterbodies Map will show the distances from the proposed operation.

4.2.2 Existing Biophysical Environment

The area can be classified as northern boreal climatic zone with cooler, shorter summers than the Codroy subregion, but longer and warmer summers than other subregions in the Western Newfoundland Forest Ecoregion. The area also experiences cold winters. The mean summer temperatures are around 11.5 C and the mean winter temperatures are roughly -1 C with an annual precipitation around 1100mm.

The Subregion is typically forested with fir, black spruce, juniper and mixed shrubs. The main wildlife species include moose, black bear, caribou, lynx, coyote and fox. The proposed development is beyond several rolling hills that will provide a screen when viewed from all directions.

4.3 Construction and Operation

The construction aspect of the proposed project will consist of clearing the site from trees and organics/grubbing of soils before proceeding to remove the underlying gravels/backfill aggregate. Any organic material will be preserved for future reclamation work.

4.3.1 Site Access

The main access to the project will be via the already established site access from the Flat Bay Route 403 to the Turf Point Resources quarry (File 7119753) located ~630m to the south east of the project area. The private haul road will be the main haul route for the proposed aggregates.

4.3.2 Site Clearing

Any Merchantable timber will be cleared either by handheld chainsaws or mechanical harvesting equipment and will be garnered under a commercial cutting permit issued by the Department of Fisheries, Forestry and Agriculture. Surface soils, subsoils and grubbing will be stripped and windrowed to the permit boundary within the designated buffer zone. This windrowed material will be used to construct perimeter berms for future reclamation and to control any potential access to the site from the southeast.

4.3.3 Quarry Development and Operation

The initial development phase of the project will begin in the northeastern portion of the permit area and work towards the southwest. This initial development start point was chosen as the most practical development approach as quarry access is gained in the northern corner and it will limit disturbance within the site.

The construction aspect of this project will be carried out across the entire quarry area, starting in the previously mentioned northern area in phases. The work will consist of clearing the site from trees and grubbing while removing and stockpiling organics as noted in Section 4.3.2. The overall development will be planned in phases for efficient and safe production based on construction demands.

Operational activities will consist of removing the aggregate material by heavy equipment, which will be sized with portable crusher and if required stockpiled. Both the construction and operation stages of the quarry will employ the use of heavy equipment such as excavators, front end loaders and dump trucks.

Processing activities will include the use of an excavator that will transfer material into a crusher/screener. Then a front end loader will take the material away from the crusher/screener. The material processed will be stockpiled within the quarry. The crusher/screener will be mobile in nature and will be readily moved as required to facilitate a more productive processing setup. The use of water for secondary processing/washing of aggregates will not be required.
Produced stockpiled materials, will be transported out of the quarry as needed for road way maintenance. Typical quarrying activities will take place between April and November, with any schedule changes corresponding to seasonal conditions and product demand.

4.4 Potential Sources of Pollution During Construction and Operation

The construction and operational phases of the development will utilize equipment such as chainsaws, timber harvesting equipment, front end loaders, excavators, and dump trucks. This equipment and related activities represent a potential source of noise disturbance, exhaust emissions, the potential release of petroleum hydrocarbons, dust, domestic waste, and general refuse.

4.4.1 Air

Air pollution will be controlled by having all equipment on site fitted with the appropriate emission-control equipment. Site clearing will be completed in phases, with only areas required for production cleared, reducing the overall potential of excessive dust and pollution impacts. Dust created by equipment operation along roads will be kept at a minimum by the watering of roads as required. All activities within the quarry will be conducted in a manner that respects the province's Air pollution Control Regulations (2004).

4.4.2 Noise

The day-to-day operations of the quarry site are not anticipated to have any greater effects on nearby receptors then the currently ongoing and previous operations at the adjacent operational quarries. All equipment will be kept in good operating order to ensure that maximum

manufacture decibel levels produced are not exceed. Workers will have the proper hearing protection and the work site is a controlled work environment.

4.4.3 Domestic Waste and Sewage

Domestic waste generated during construction will be collected and disposed of in accordance with the Environmental Protection Act 2002. Portable lavatories located 10 within the proposed quarry boundaries will be utilized as required. Waste will be removed by an approved sewage service provider.

4.4.4 Fuel

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 spill or leaks in excess of 70 liters will be immediately contained, cleaned up and reported to the Environmental Emergency Telephone Line.

4.4.5 Effluent

The control of sediment and erosion is one of the more significant items to be addressed with quarrying activities. There is a potential for erosion and transport of fine-grained particles during construction activities in relation to clearing of the land. Constant monitoring of this potential will take place during construction while clearing takes place and if required, appropriate mitigating measures in line with industry best management practices will be utilized. The first step will be to create erosion control ditches with check dams, hay bales, and silt fencing to filter water leaving the area. Site runoff will then be directed towards vegetated areas, acting as a secondary filter for fine particles. With the development of the site in phases and not the complete stripping of the organic layer throughout the entirety of its 6.0 Ha, the amount of erosion will be reduced.

The same process will be applied for the operational phase of the project. Site runoff will be directed to various vegetated areas depending on what stage of development is occurring. If required, as a larger footprint is developed, and progressive reclamation is in progress, small shallow depressions maybe be constructed to temporarily hold water within the quarry and allow for suspended sediment to deposit prior to water being released into vegetated areas along ditches with check dams, hay bales and silt fencing. The in-situ aggregate material present is somewhat permeable, thus natural drainage of some surface water into the subsurface will occur within the quarry area.

All water released into the environment will meet the regulatory requirements of the Environmental Control Water and Sewage Regulations (2003) as well as provincial permits.

4.5 Potential Resource Conflicts During Construction and Operation

Potential resource conflicts during construction and operation of the quarry could include the following: encounters with wildlife, the use of the area for recreational purposes such as big and small game hunting, berry harvesting, and domestic wood cutting.
Any encounter with wildlife shall follow regulations stated in the Wildlife Regulations under the Wildlife Act (CC. 96-809). The historical nature of industrial activity in the area is expected to limit recreational activities, hunting activities and berry picking in favor of less developed areas in the region.

The quarry area is located beyond the 30 m reservation from all waterbodies and watercourses (including wetlands) required by the Water Resources Management Division. The following quarry development plan will be applied as a precautionary measure to prevent suspended solids from entering the above noted:

- Within the proposed quarry area, a 5 m wide buffer will be left intact where no resources will be excavated alongside all permit boundaries, except for where the boundary is adjacent to other quarry operators. Berms constructed from the windrowed organics will be placed within the 5 m buffer area. As shown in Figure 3.

- The pit floor will be kept lower than the perimeter berms as development progresses, to contain precipitation water within the quarry site and retain suspended solids to within the quarry area. This will also provide line of site restrictions of the work area.

- Precipitation for the entire site will be controlled at discharge points using the mitigation measures previously mentioned in Section 4.4.5.

4.6 Occupation

The occupations required for the proponent's site are listed below and classified as per the National Occupational Classification (2016):

Construction

- 1 Quarry Supervisor (8221)
- 2 Heavy Equipment Operators –Excavator/Dump Truck (7521)
- 1 Heavy Equipment Operator – Tree Harvester/Mulcher (7521)

Operation

- 1 Quarry Supervisor (8221)
- 1 Heavy Equipment Operator – Loader/Excavator (7521)
- 1 Heavy Equipment Operator – Screener (7521)

- 2 Heavy Equipment Operators (amount may vary depending on demand) – Tandem, Tandem-Tandem, or Semi Dump Trailers (7521)

Operation of the quarry will require up to 5 employees to run at the anticipated annual production rate of ~10,000 m3, although fluctuations in material demand may lead to a change in the number of required employees and annual production. Annual operations will be seasonal between April and October.

4.7 Reclamation and Closure

The project will be rehabilitated under a typical reclamation plan where quarry faces will be resurfaced to implement 30-degree sloping. Windrowed and preserved organic material that was stripped during the construction phase will be re-spread to promote natural revegetation. It is projected that rehabilitation can begin once the quarry reaches a development phase that will not require additional expansion. Rehabilitation will be completed in a phased approach, generally following the development phases, until its completion.

5.0 APPROVAL OF THE UNDERTAKING

Typically, a quarry permit application is referred to the various applicable agencies by the Quarry Materials Division. In this case, only the Environmental Assessment Division was consulted and because the project required registration under Section 52 of the Environmental Assessment Regulations 2003, the development was not referred further. Based on the historic nature of this site and available information pertaining to quarry development and required approvals, a limited list of possible referral agencies is provided in Table 1 below.

Table 1: Referral Agencies, Responses and Possible Permits Required

Department/ Regulatory Agency	Status	Possible Required Approvals/Permits
Municipal Affairs and Environment- Water Resources Management Division	Unknown	
Municipal Affairs and Environment – Environmental Assessment Division	Project Registration Required	Environmental Assessment Registration
Industry, Energy and Technology- Mineral Lands Division	Unknown	Quarry Permit

6.0 SCHEDULE

The proposed schedule for this project is as follows:

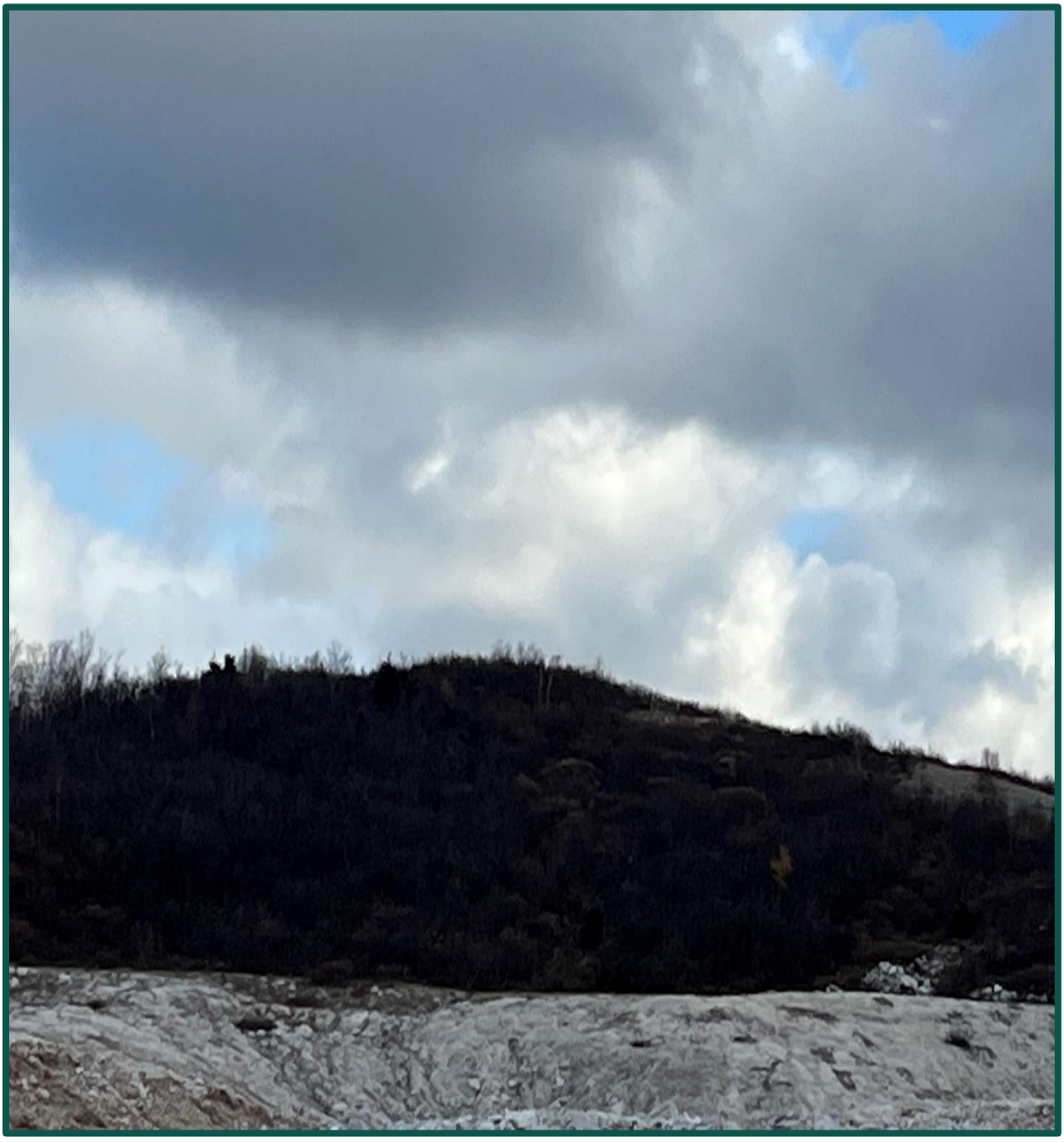
Submission of Registration Document	November 2022
Review of Submission Document by Government	December 2022
Commencement of Construction and Operations	April 2023

7.0 FUNDING

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

Picture 1: Proposed Quarry Area – Looking North

Picture 2: Proposed Quarry Area - Looking West



Picture 3: Roadway Access to Proposed Quarry Site

Picture 4: Proposed Quarry Site – Looking South

Figure 1: Proposed Quarry Site Location Map

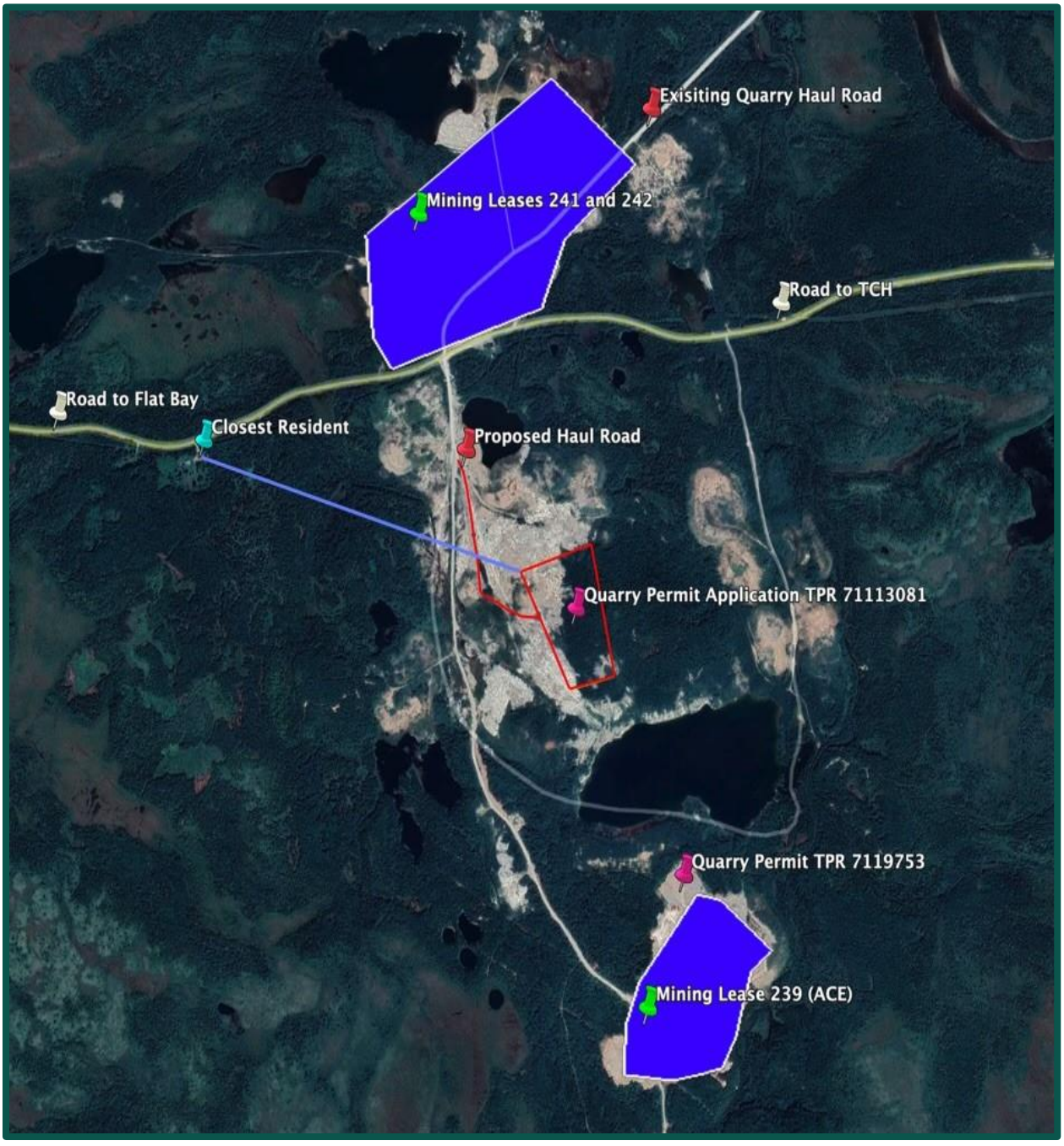


Figure 2: Project Location Map (NTS)

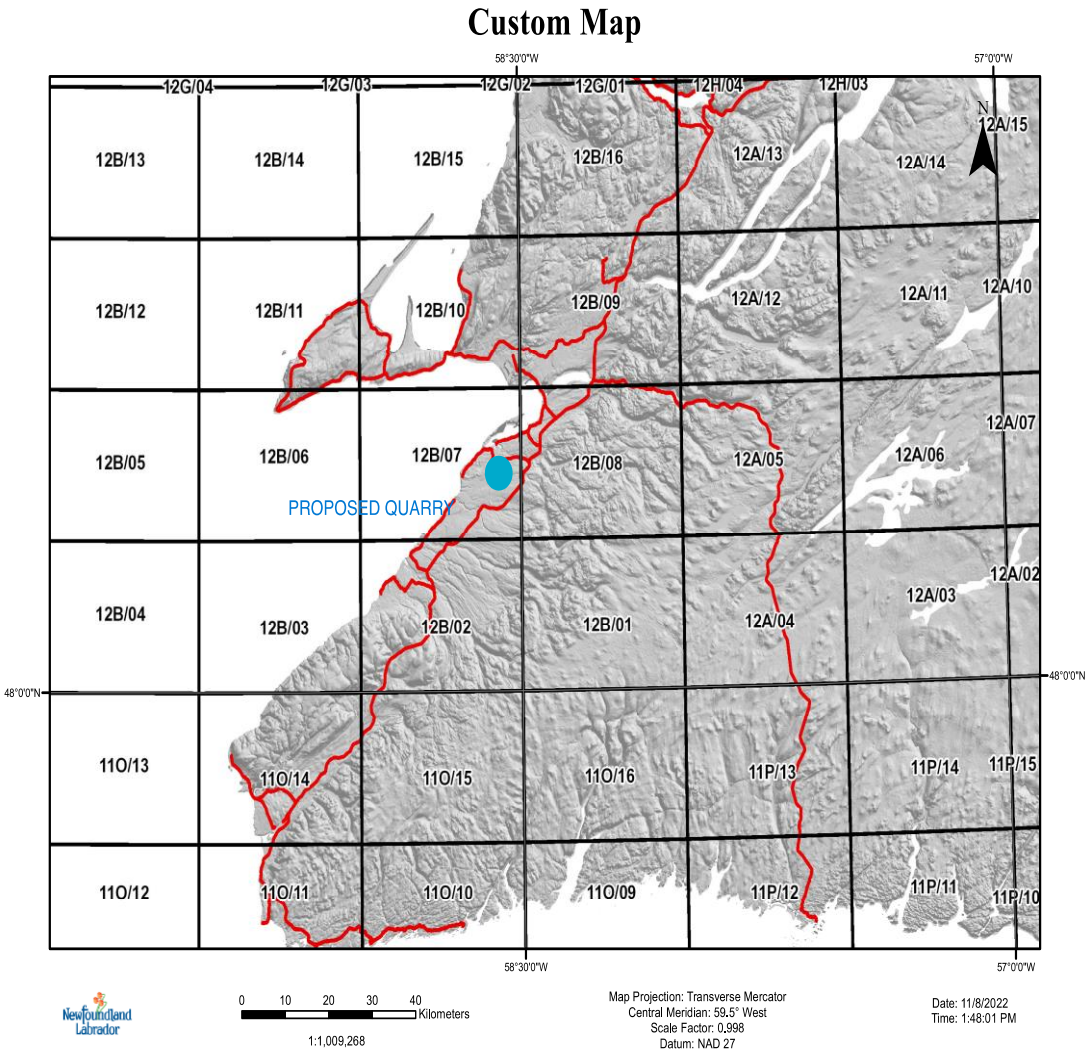


Figure 3: Buffer Zone Placement

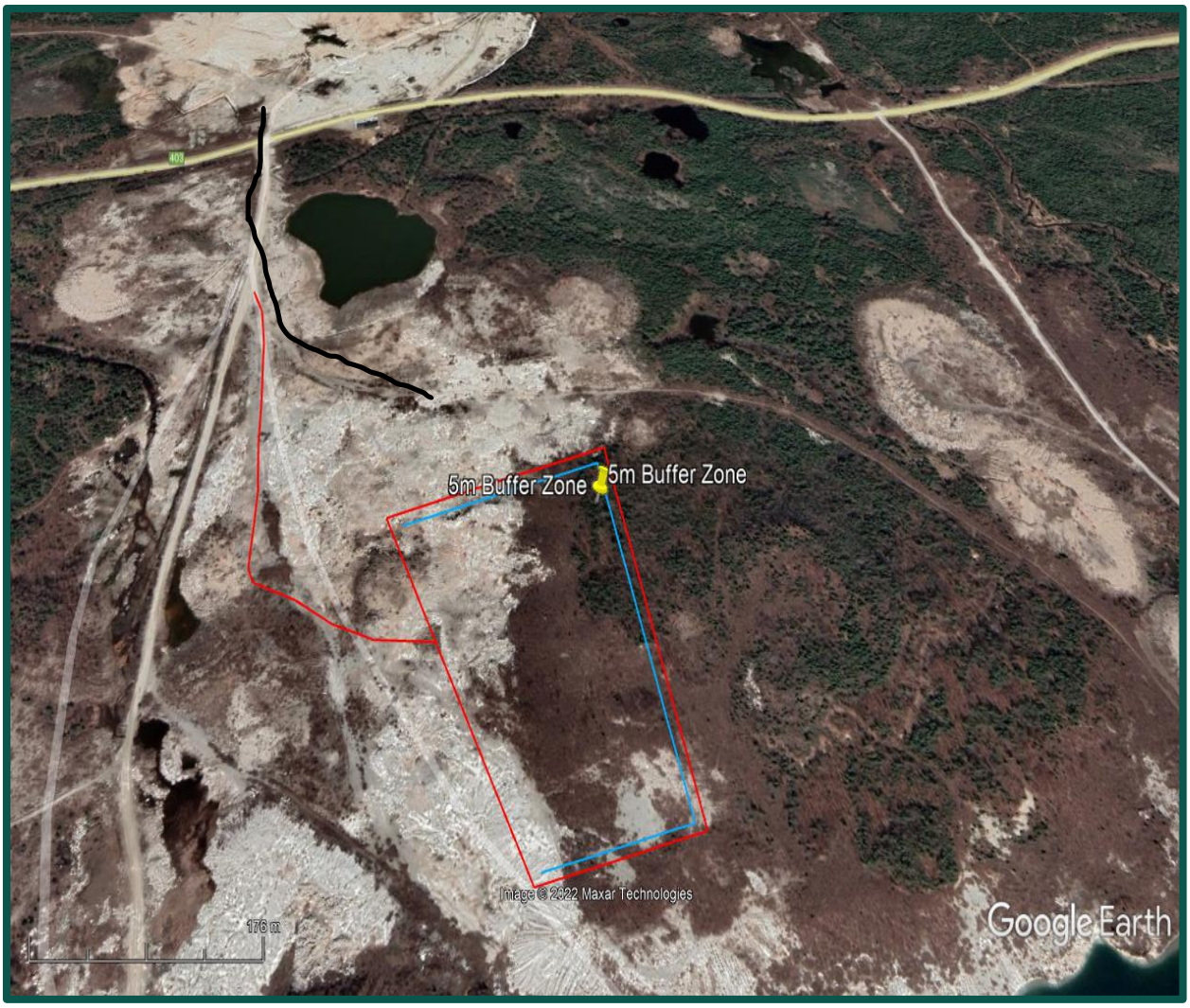


Figure 4: Project Overview

Figure 5: Waterbodies Map

Figure 6: Proposed Route for Project