

2.1 SUMMARY STATEMENT

APPLICANT: HAROLD SUTHERLAND CONSTRUCTION LTD.

APPLICATION FOR A CATEGORY 2 – CLASS “A” LICENCE

**Part Lot 36, Concession 2, Township of Georgian Bluffs,
(formerly Sarawak Twp.), Grey County**

SARAWAK QUARRY EXPANSION

Prepared by: Dave Munro
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Harold Sutherland Construction Ltd.

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Introduction

This Summary Statement is prepared in support of an application for a Category 2, Class “A” licence to operate a quarry below water by Harold Sutherland Construction Ltd., as per Section 2.1 of the Provincial Standards enacted under the Aggregate Resources Act. The application is for an expansion to the adjacent existing “Sarawak Quarry” located immediately to the North on Lot 37, Conc. 2. This proposed expansion quarry is located on Part Lot 36, Conc. 2, Township of Georgian Bluffs, Grey County (see attached Figure 1).

2.1.1 Planning and Land Use Considerations

Lot 36, Concession 2 is designated 'Agricultural' and 'Rural in the County of Grey Official Plan and zoned 'A1' in the Township of Georgian Bluffs Zoning By-law. It is proposed to amend the Official Plan by applying the 'Mineral Resource Extraction' designation to the intended license area and to amend the Zoning By-law by changing the zoning of the same lands to 'M2'.

2.1.2 Agricultural Classification of the Subject Property

The CLI agricultural soil classification for this portion of Lot 36 to be extracted is approximately 90% class 1 and 10% class 7. These soil class values were obtained from the Soil classification Base Map for Grey County (see attached Figure 2).

2.1.3 Quality and Quantity of Aggregate on Site

The bedrock formation for this location is known as the Manitoulin formation. This type of rock yields both A and B crushed stone for use as good road building material. Grey County has not mapped their bedrock formations and therefore reliance on the quality of the material is derived from past knowledge and operation of the existing adjacent quarry as well as test hole observations on site.

Under the assumption that extraction proceeds according to the Operational Plan to an average depth of 6 metres over an area of 14.3 hectares, a total of approximately 2.1 million tonnes of crushable stone is available.

The maximum number of tonnes to be removed in any calendar year is 400,000 tonnes which is to be a combined total for this expansion site and the adjacent existing Sarawak Quarry. All of this material is available above water.

2.1.4 Main Haulage Routes and Truck Traffic

Aggregate extracted from this site will be transported via the existing internal haul road on the adjacent quarry site East to Grey Road #1. This haul road will be maintained for the operational life of this quarry. From the entrance/exit of this site trucks will travel either North or South on Grey Road #1, which is a paved road, to customer locations. No additional entrance permits are required for this quarry expansion.

The number of trucks leaving the site is dependent on market, however, the number of trucks entering and leaving the site should not change significantly since the annual tonnage limit for this expansion site is proposed to be a combined limit with the existing adjacent quarry – ie – not to exceed the current limit established for the existing adjacent quarry to the North.

2.1.5 Progressive and Final Rehabilitation

This quarry is proposed to be operated in four phases. As this is a below water quarry, the final rehabilitation use is proposed to be a large pond area and therefore each phase will ultimately fill with water. Perimeter slopes on each phase will be progressively rehabilitated to a 2:1 slope utilizing the overburden and topsoil available in the berms. Grading of the faces in each phase will be completed while operations begin in the next extraction phase. It is likely that there will be some rock debris available also from crushing operations that will be used to assist in creating the 2:1 slopes. The top edges of the quarry could provide wildlife habitat with certain tree plantings, rock piles, woody debris piles and boulders.

If this expansion site is licensed prior to any additional stripping required on the adjacent licensed site, then rehabilitation of the slopes on the existing quarry will be completed as the expansion site becomes operable. It is proposed that both the existing quarry and the expansion site will be rehabilitated in the same manner – ie – both will have the sideslopes graded to a 2:1 slope and then fill with water to become pond areas. Both sites will utilize the existing haul road which will be incorporated as part of this final rehabilitation to a pond. Some importation of material may be required to facilitate creation of the 2:1 slopes as there is next to nil overburden on this site (see Note 8 on page 4 of the site plan). The topsoil layer is estimated at an average depth of 20 cm to 25 cm and is to be used only for final cover and not creation of the side slopes.

Existing Surface Water On and Surrounding the Site

At present in the adjacent licensed quarry there is an existing sump pond from which surface water is pumped from the quarry property. This water is then discharged through the proposed expansion property and dissipates to the adjacent fields. The proposed expansion quarry site will utilize this same sump pond as the new quarry will be at the same final floor elevation. As the expansion quarry is developed the quarry floor will be blasted in such a manner as to ensure a slope towards the current sump pond. There is a seasonally wet area in the adjacent field to the west of the expansion quarry which is augmented during pumping times. A more detailed explanation regarding the water movement in the expansion quarry is included in the Hydrogeological Assessment filed with this application.

Respectfully Submitted,



Dave Munro
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Harold Sutherland Construction Ltd.

