



24 February 2023

## **Additional Information in Support of Clearing Application**

### **Description of Proposed Activity.**

The Mining Proposal for the Fitzroy South Quarry submitted by Kimberley Granite Quarries proposes to operate a granite extraction and sizing operation at the site. The site is upon tenement M04/450.

The site requires a clearing permit (purpose permit) to prepare the site for the quarry extraction and the sizing area and associated infrastructure. The size of the M04/450 application is 556 hectares and the purpose permit for clearing is requested to be 49 hectares.

The clearing requirements will fall into three categories being;

1. Quarry pit area <5 Ha
2. Sizing, stockpile and facility area <30 Ha
3. Associated infrastructure such as connecting roads on the M04/450 <10Ha

The proposed activities for the site are detailed in full in the Mining Proposal. In brief, the proposal is to operate a small quarry site extracting granite covering an area of less than five hectares. After extraction from the quarry the material will be moved to a sizing and stockpiling area for grading ready for customers to purchase. There will be standard mining equipment's and administration facilities on site to be able to extract approximately 200,000tpa of granite on an ongoing basis. The grading and stockpile area plus all the administration and support facilities will be located on an area of less than 30 hectares, which will be adjacent to the quarry pit. Associated infrastructure such as a road to access the stockpile area from the boundary of M04/450 will be required.

### **Assessment Information**

1. The size of the clearing purpose permit requested is 49Ha upon the granite formation that is approximately 5,000 hectares in size and contained within the Gogo Station boundary of approximately 600,000 hectares in size. Reference section 6.1 of Mining Proposal
2. Philip Stanley from Goldfields Land Care services was engaged to conduct a full site flora survey covering both M04/450 and L04/57.  
(Report is Appendix 1 of the Mine Closure Plan as attached to the Mining Proposal).  
In summary the consultant found;  
"No plant taxa gazetted as Declared Rare Flora pursuant to subsection (2) of section 23F of the Wildlife Conservation Act 1950 (W. A.) and no plant taxon listed as Threatened under the

Environment Protection and Biodiversity Conservation act 1999 (Department of Sustainability, Water, Population and Community) have been recorded within the surveyed area.  
No plant species of conservation significance were recorded within the survey area.”

3. A fauna survey was undertaken by the Department of Environment and Conservation to identify any threatened species in the area. The area of requested review was a 5 km radius from the quarry area as this takes in major infrastructure such as the Great Northern Hwy and significantly different land forms from the granite quarry area including the sedimentary formations of the Limestone Billy Hills and the Pillara Range. The results of this review from the department were;

‘Within your 5km specified radius (sheet one of the excel spreadsheet) under conservation status (CONSV\_CODE) there is no specially protected or declared rare fauna. That is why I expanded the search radius to 30km (sheet two of the excel spreadsheet) and on that sheet you will see a list of Threatened or priority protected fauna.’

The DEC expanded the search area to a radius distance of 30km so that the report included recorded threatened or priority species. In reading the report KGQ understands that the only threatened species that was reported was the Australia Painted Snipe, a wetlands bird.

The proposed activity by KGQ is situated a granite formation partially covered by spinifex, as the Flora Report details, and there are no wetland areas within or adjacent to any of the tenements held by the company. KGQ’s investigation has lead the company to understands there are no wetland areas adjacent to the company’s holding or that could be affected by the company’s activities.

The DEC report did not discover any threatened or protected species listed by the EPBC Act within the requested search area.

The fauna report from the Department of Environment and Conservation is attached in Appendix 2 of the Mine Closure Plan as attached to the Mining Proposal.

- 4.

- a. **Geology**

The geology within the Pillara region is dominated by two large ranges; the Pillara Range and the Limestone Billy Hills. Both ranges consist mainly of stromatoporoid limestone, fenestral and oolite. The Pillara range formation runs at approximately 310 degrees' flanking the north and east boundaries of M04/450 with the Lime Stone Billy Hills running at approximately 40 degrees' flanking the western boundary. Located between these two ranges is the Pillara monzogranite, a large granitoid intrusion that outcrops across the whole of M04/450. The monzogranite is course grained in nature with slight biotite, phelspar and quartz enrichment.

b. **Soil**

The Fitzroy South Quarry site is sporadically covered by sandy sediments as a result of the erosion of the localised granitoid intrusion. The depth of the topsoil sand is very shallow at the Fitzroy South Quarry site, with the majority of the area covered by granitoid boulders

c. **Landforms**

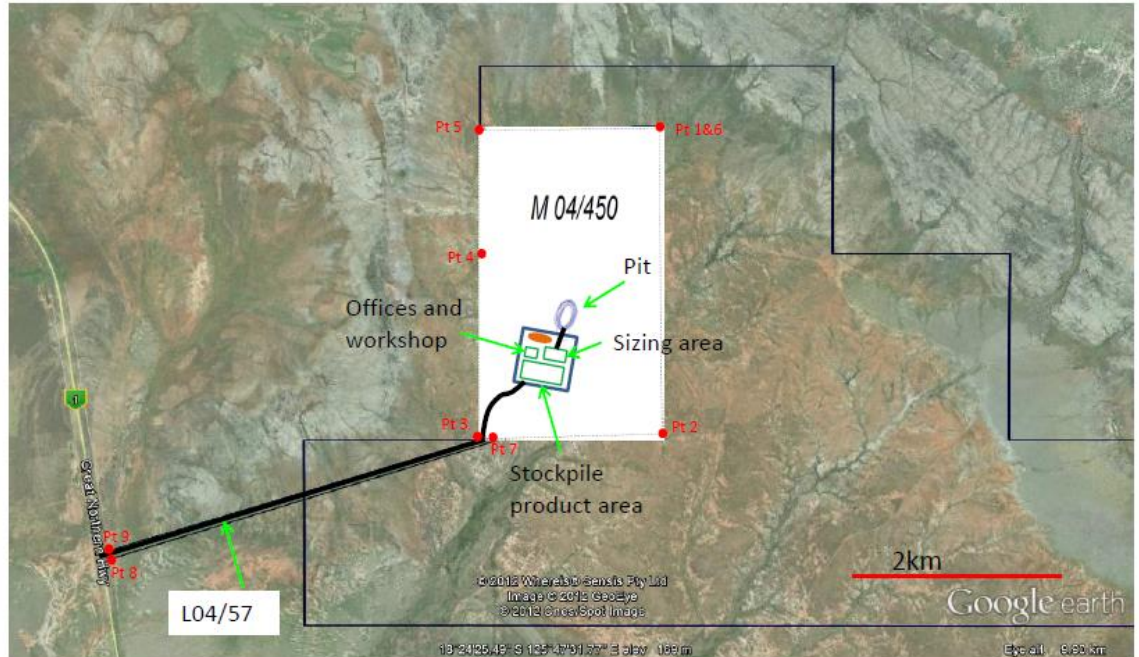
The majority of the granite material upon the lease M04/450 exhibits a primary unweathered profile even from the exposed boulders. There are a number of natural granite breakage areas as a result of natural weathering process which confirms the low oxidation of the general formation. The granite formations are generally flat in nature compared to the sedimentary formation of the Limestone Billy Hills and Pillara Range located kilometres from the planned activity area.

d. **Hydrology**

The location of the proposed quarry site is protected from the north, east and west from the Fitzroy River flood plain as a result of being surrounded by the Limestone Billy Hills and the Pillara Range. These sedimentary formations provide excellent protection from the vast water volumes that can be experienced in the Fitzroy River floodplain area. This was demonstrated during the in the record flood in January 2023 of 15.8m at the Fitzroy Crossing area

5.

### Tenement Location and Planned Activities Area



Proposed activities as per Description of Proposed Activity.

#### 6. Hydrological Summary

The Fitzroy South Quarry excavation is expected to be a shallow pit with an overall pit floor depth of approximately 30 meters. The shallow nature of the proposed pit will facilitate mining of the required material without penetration of the sub surface water table. Therefore any water encountered within the pit confines will be due to collection from rain events only. Water will be captured, stored and utilised for dust mitigation within the crushing area. Limited testing on site suggests that all ground water has potable water qualities. The nearest external water supply known to the company is at the Joy Springs community approximately 13km away. The water extraction bore is approximately 45m deep for the community.

#### 7. Vegetation & Land Degradation

The area is current used as grazing country although the granite formation and grows very little feed for the cattle in the spinifex country. The cattle prefer the growth from the black soil country to the south of the project, that is predominately buffel grass.



The company does not believe that the project will have a degrading effect on the surrounding area. The main reason is that the granite is very hard clean material and is inert with respects to leaching ARD or AMD issues.

**8. Environmental Management**

The proposed activity will not produce any tailings, waste stockpiles of remnant material after the life of the project. All remaining material will be placed in the bottom of the pit after the site is finished. The granite material extracted has a requirement to be inert with respect to leaching of sulphates and sulphide of chloride solubility.

Dust management is the key focus of the environmental control. Dust will be controlled by standard water sprays in the pit and around the site.

Reference documents Mining Proposal and Mine Closure Plan plus Appendixes