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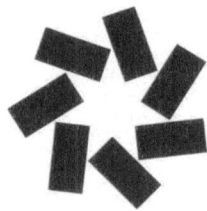
Site Environmental and
Remediation Services

Extractive Industries Licence Application Noise Management Plan

LOT 5, ON PLAN 7892 WALYUNGA ROAD

CITY OF SWAN

July 2016



BRIKMAKERS

PREPARED FOR: **BRIKMAKERS**
260 KALAMUNDA ROAD
SOUTH GUILDFORD, WA, 6055



DOCUMENT CONTROL SHEET

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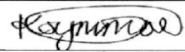
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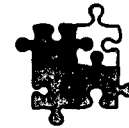
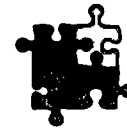


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FIGURES

- FIGURE 1: Site Location
FIGURE 2: Extraction Site Layout and
FIGURE 3: Buffer zones



1 INTRODUCTION

This Noise Management Plan has been prepared in support of the application to approve the continuation and extension of extraction at Lot 5 (91) Walyunga Road, Bullsbrook, approximately 30 kilometres to the north east of Perth Central Business District. The proponent, Brikmakers (previously BGC Clay Products Pty Ltd) are leasing the site and seek the relevant permissions and approvals to continue to extract the abundant clay and schist resource from the site with the addition of fill sand extraction

This application examines the environmental and planning aspects of the proposed development.

2 SITE INFORMATION

The site is located in a rural location, in a resource abundant area, close to a major traffic corridor beyond the suburban fringe of the Perth Metropolitan Area. The current land owners are operating a construction and demolition recycling facility with the addition of a sand pit. There are 6 residential properties within 1km of the existing licensed facility.

3 SITE ACTIVITIES

The noise generated by any activities on the Site will be minimised and comply with best practice for noise control in mining operations. The extraction will be campaign based and only occur just prior to and during cartage and only during hours imposed by the city's extractive industries licence (maximum permissible working hours will be 0600 to 1800).

Based on the Site location (**Figure 1**), there are no noise sensitive receptors (as defined by the *Environmental Protection (Noise) Regulations 1997*) located within 100 metres of the proposed works, however, the closest residential property is situated approximately 450m away from site.

There are three possible noise sources from the proposed clay pit;

- Extraction (digging and moving of material);
- Trucks operating onsite.
- Crushing

The extraction of resource is an economical operation, with often the significant portion of the cost of basic raw materials generated through transportation.



It is necessary that in the planning phase and throughout the life of the project, Industry Best Practice measures and controls are implemented to reduce the effects of noise emissions from the site.

This report will comply with the noise emissions guidelines from the *Environmental Protection (Noise) Regulations 1997*.

4 NOISE CONTROL AND MANAGEMENT STRATEGIES

The EPA guidelines for the Assessment of Environmental Factors No. 3 Separation Distances between Industrial and Sensitive Land uses states that 300 - 500 m should be reserved as a buffer around extraction site, dependent on the size of the operation.

As per **Figure 2**, the extraction area is located in an eastern and southern most portions of the subject site, **Figure 3** presents the buffer distances from the extraction area to the nearest residential receptors.

The control of noise on the site will be in accordance with the Australian Standard AS 2436:2010 *Guide to Noise and Vibration Control on Construction Maintenance and Demolition Sites*. In accordance with the Standard, the methods used to reduce noise emission from the site will include:

i) Bunding

If necessary or required Brikmakers will add any additional bunding shown to be needed in the noise modelling to comply with noise regulations.

ii) Site Induction

All site supervisors and workers will be made aware of the noise and vibration limits established for the site and noise and vibration control measures to be implemented. Project Managers and Construction Supervisors should review expected noise and vibration emissions from activities and prepare options for noise and vibration control, providing respite to specific residential areas and sensitive buildings.

iii) Extraction Programming

Extraction works onsite shall be programmed in a manner as to have works progressing in a direction towards sensitive noise receptors. This will ensure that there is an additional sound barrier between equipment and receptors in the un-excavated material. The height of the barrier shall depend on the depth of the excavation.

iv) Active Management Plan

The determination of appropriate noise control measures will be dependent on the particular activities and excavation equipment used. An acoustic report is currently being produced by Brikmakers to outline the source of noise and extent the noise travels towards sensitive receptors.

With reference to control of noise from construction sites, the Environmental Protection (Noise) Regulations (AS2436-2010) recommends the following control measures that Brikmakers will actively comply with:

- Reasonable and suitable noise guidelines be established
- All practicable measures are to be taken on the Site to regulate noise emissions, including: the siting of noisy static process, selecting less noisy processes, and regulating hours of operation.
- Undertake noise-monitoring where non-compliance occurs to assist in the management and control of noise emission.

5 CONCLUSION

Brikmakers will apply management strategies to ensure minimal impact to surrounding receptors during the proposed works on Lot 5 Walyunga Road. Clay operation at the Site has been occurring for 8 years with no previous noise complaints

An acoustic report is currently being prepared by Brikmakers and depending on the outcome of the report a further-in-depth Noise Management Plan will be submitted to the City of Swan in addition to this management plan if required



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END OF REPORT

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FIGURE : Site Location



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Job No: Walyunga Road
Address: Lot 5 (91) Walyunga Road

Scale: 1:10,000
Original size: A3
Imagery from: 11/10/13
Source: Nearmap

Date drawn: 10/05/16
Revision: 0
Drawn by: A.C.
Checked by: A.R.



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File: N:\A SERS\GIS\Projects\ Bullsbrook\ Lot 5 Walyunga Clay Pit MXD\Fig 1 - Site Location

Legend

- Lot Boundary
- AccessRoute
- Clay and Schist extraction- Extension
- BushForever



**Basic Layout - Dust Management Plan
Walyunga Road**



FIGURE : Site Location and Buffer zone



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File: N:\A SERS\GIS\Projects\Bullsbrook\Lot 5 Walyunga Clay Pit MXD\Fig 1 - Site Location

Legend

- Lot Boundary
- ClayBoundary_1000m
- ClayBoundary_500m
- ClayBoundary_150m
- AccessRoute
- Clay and Schist extraction- Extension
- BushForever
- residents