

Cleary Bros (Bombo) Pty Ltd

ABN: 28 000 157 808



CLEARY BROS

Albion Park Quarry Extraction Area Stage 7 Extension

Addendum Noise Assessment

Prepared by

SLR Consulting Australia Pty Ltd



April 2022

**Specialist Consultant Studies Compendium
Part 2b**

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Addendum Noise Assessment

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April 2022

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Cleary Bros (Bombo) Pty Ltd

Albion Park Quarry Extraction Area Stage 7 Extension



13 April 2022

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Cleary Bros
39 Five Islands Road
Port Kembla
NSW 2505

Attention: Mark Hammond

Dear Mark

Albion Park Quarry - Stage 7 Extraction Area Removal of Northern Amenity Barrier Noise Impacts

1 Introduction

At the time of finalisation of the EIS and associated noise assessment prepared by SLR (SLR, 2022), Cleary Bros were negotiating an agreement with the owners of the "Figtree Hill" property. During those negotiations, Cleary Bros proposed the removal of the Northern Amenity Barrier and adjoining tree screen from the Project design.

Should the owners of "Figtree Hill" agree, the Northern Amenity Barrier and adjoining tree screen will not be constructed as part of the Project. The temporary amenity barrier and tree screen along the eastern boundary of Stage 7a would still be constructed.

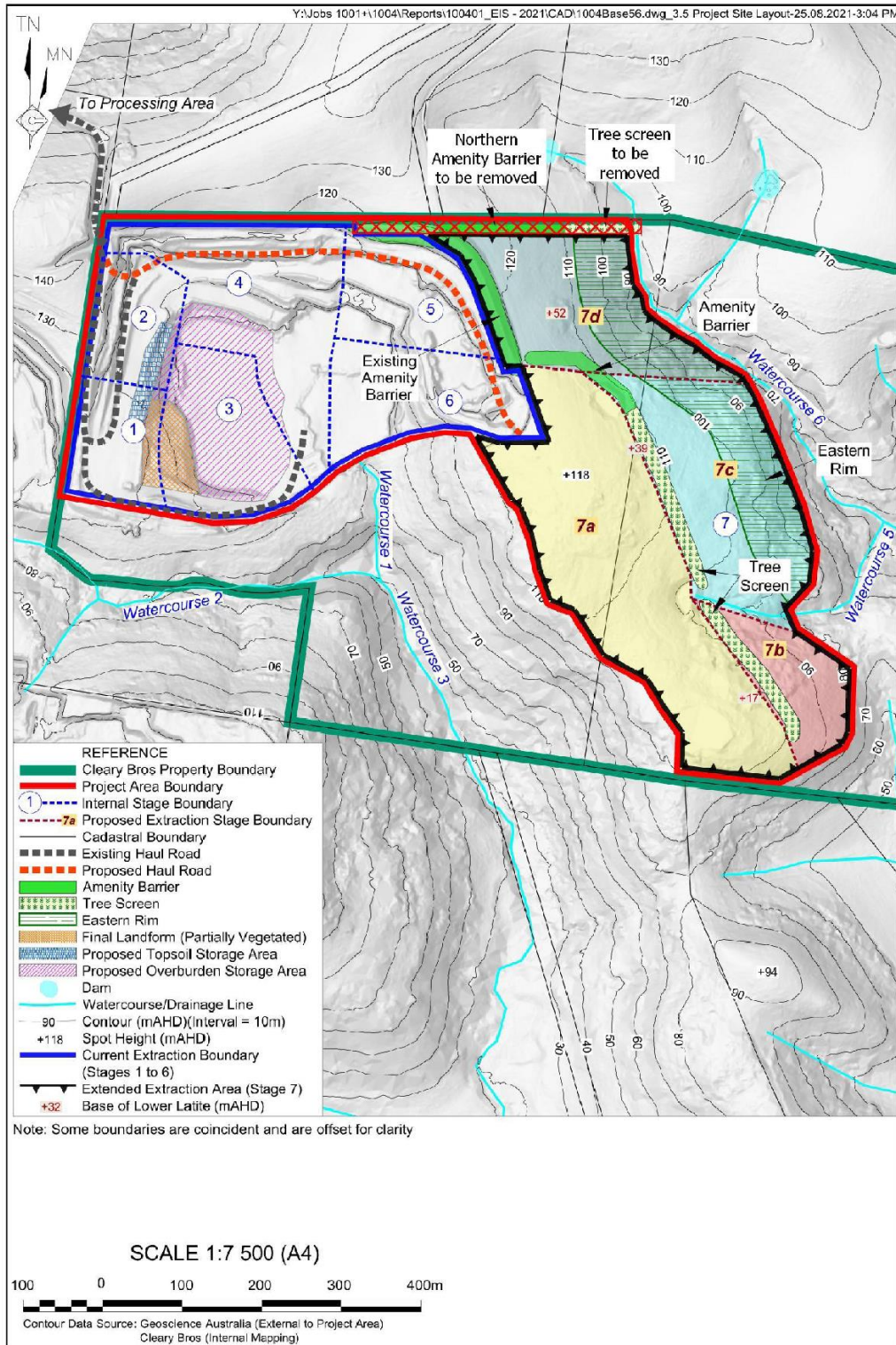
This letter has been prepared to detail how this change to the Project design (removal of the Northern Amenity Barrier and adjoining tree screen) will affect the predicted noise levels for the non-Project related residences, and is intended to be included as an addendum to the Noise and Blasting Assessment to accompany the EIS for the Project.

1.1 Description of Change

The proposed changes to the barrier layout are shown in **Figure 1**. The location of the Project Area with sensitive receivers and topographic features is shown in **Figure 2**.

The Northern Amenity Barrier and tree screen are located on the northern boundary of the existing Stage 5 area and proposed Stage 7d area. As shown in **Figure 2**, the Northern Amenity Barrier follows the existing ground level which is between approximately 125 m AHD and 110 m AHD. The ridge to the north of the barrier where the "Figtree Hill" residences R1, R2, and R3 are located is at a higher elevation (130-140m AHD). This ridge provides shielding to receivers to the northwest, north and northeast of the Stage 7 area including Greenmeadows Estate, R4, R7 and R8. Receivers to the east and southeast of the Project Area, such as R5, R6, R9, R10, and R11, are not affected by the Northern Amenity Barrier.

Figure 1 Location of Amenity Barriers



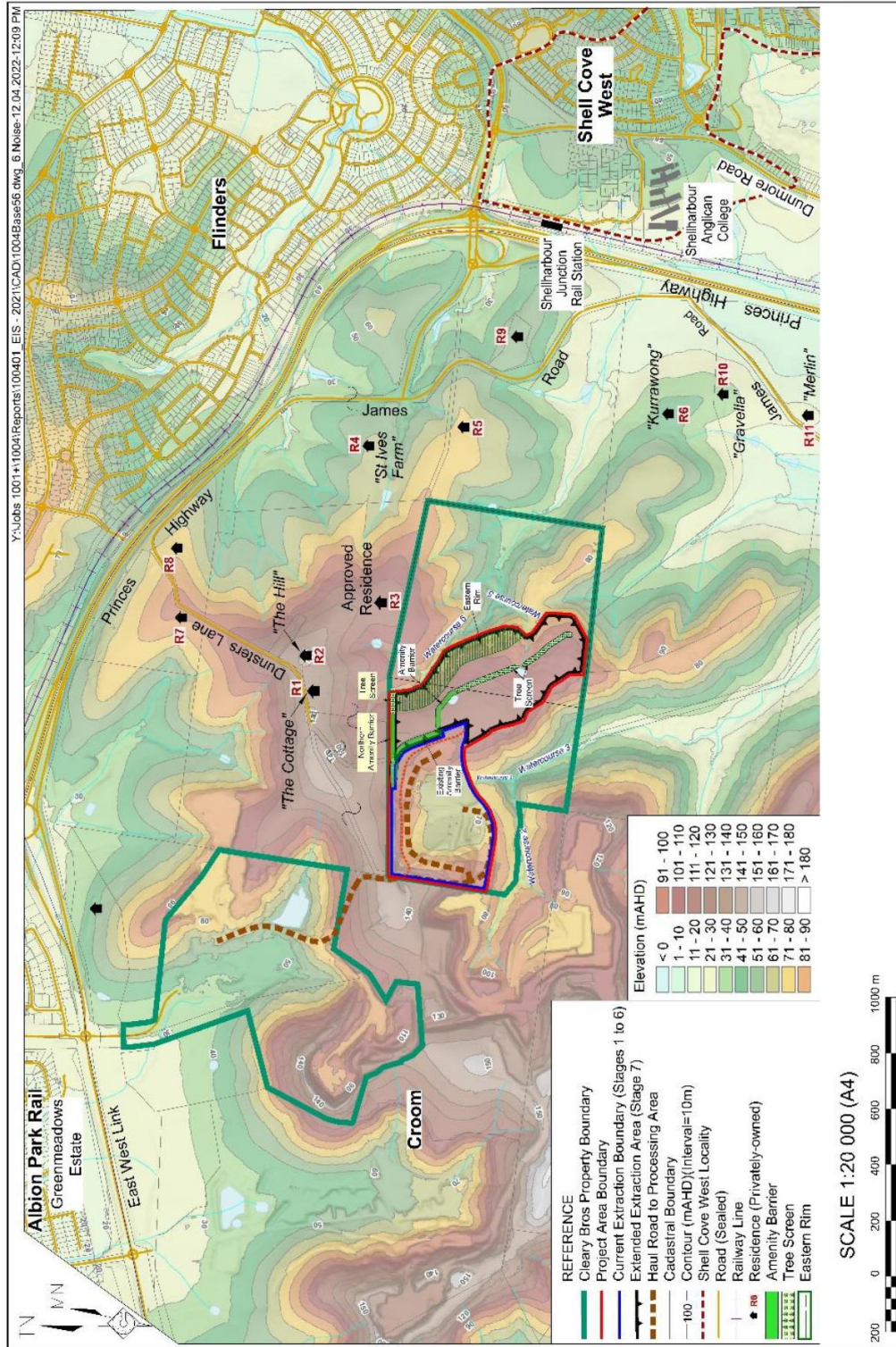
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Cleary Bros
 Albion Park Quarry - Stage 7 Extraction Area
 Removal of Northern Amenity Barrier
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Figure 2 Sensitive Receivers and Local Topography (to be updated by RW Corkery)



2 Comparison of Noise Levels

A comparison of predicted noise levels with and without the Northern Amenity Barrier was undertaken to determine if any change in noise impacts would be expected due to removal of the barrier at sensitive receivers.

The noise model utilised for the assessment of Stage 7c/d included in the *Stage 7 Extension Noise and Blasting Assessment* was used to predict noise impacts with and without the Northern Amenity Barrier for both surface activities and typical extraction activities. The model results showed negligible change (<0.5dBA) in noise levels for the assessment scenarios, and the predicted noise levels presented in the EIS did not change with removal of the barrier. This is due to the following:

- The barrier is below the line of sight to the surface activities at "Figtree Hill" (R1 and R2);
- Receivers further north and northeast are shielded by the higher elevation of "Figtree Hill" and the adjoining east/west ridgeline (Greenmeadows, R7, R8); and
- Receivers to the east are not shielded by the Northern Amenity Barrier (R3-R6, R9-R11, Shell Cove West).

3 Conclusion

Removal of the Northern Amenity Barrier is not predicted to change noise levels predicted at the sensitive receivers assessed in the *Stage 7 Extension Noise and Blasting Assessment*. Noise model results indicated the following:

- The maximum noise levels predicted in the Noise and Blasting Assessment dated February 2022 are predicted to be consistent (no change in predicted noise levels) at the Figtree Hill residences in the absence of the Northern Amenity Bund and adjoining Tree Screen, and
- There will be no change in impact for any other sensitive receiver in the absence of the Northern Amenity Bund and adjoining Tree Screen.

Removal of the barrier is expected to result in negligible change in noise emissions from the Project.

Yours sincerely



AARON MCKENZIE
Principal

Checked/
Authorised by: MI