

To: Richard Noble **From:** Terry George

Attention: Ali Smyth **Date:** 24 April 2024

Email: asmith@rnoble.com.au **Pages:** 6

Our Ref: 24018670-02B Stage 13

Re: **Vivente Estate – Stage 13 Revised Layout: Transportation Noise Assessment**

A noise assessment in relation to future traffic was undertaken to the Vivente Estate by Lloyd George Acoustics and reported in:

- *Transportation Noise Assessment, Vivente Estate, Hammond Park*; Reference: 14113024-03a, 29-Sep-20 (Report 1).

Since the time of Report 1, the layout for Stage 13 has been modified slightly. As such, the previous noise model was updated with the new layout and finished lot levels as shown below, provided by Civil Group (18 March 2024).

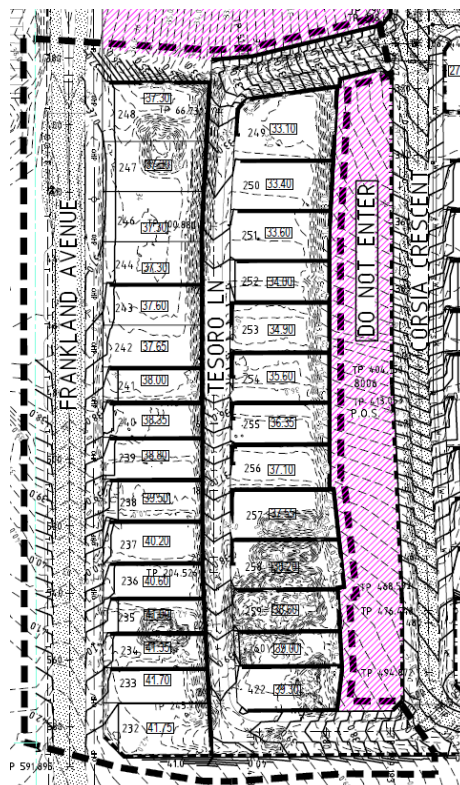


Figure 1 – Finished Lot Levels Stage 13

An additional noise model was set-up that considered noise from Frankland Avenue and Rowley Road, prior to the Rowley Road extension. This noise model follows on from a more recent assessment associated with the subdivision of Lot 414, which as requested by City of Cockburn, was to consider noise from Frankland Avenue. This work was reported in:

- *Transportation Noise Assessment, Lot 414 (#47) Corsia Crescent, Hammond Park*; Reference: 24018670-01A, 19-Mar-24 (**Report 2**).

For Stage 13, the Frankland Avenue noise model was run first, with the results presented as *Figure 2*. This shows that, noise levels may be within Exposure C at the closest lots, noting that these houses require access to Frankland Avenue such that a noise wall is not practicable.

With the new layout, the noise contours are provided as *Figure 4-1 RevA*, being an update to the noise contour plot in Report 1.

The architectural treatment requirements for each lot are then taken as the worst-case of *Figure 2* and *Figure 4-1 RevA* and reported in *Figure 5-1 RevB*, being an update to that provided in Report 1.

We trust the above is satisfactory. Should you require further information, please do not hesitate in contacting us.

Regards,

Terry George

Vivente Subdivision: Before Rowley Road Extension

$L_{Aeq}(\text{Day})$ Noise Level Contours - Future
Includes 3m High Noise Wall Along Rowley Road

Figure 2

Noise levels

$L_{Aeq}(\text{day})$ dB

<= 55		
<= 56	Exposure A	
<= 57		
<= 58		
<= 59	Exposure B	
<= 60		
<= 61		
<= 62		
<= 63	Exposure C	
<= 64		
<= 65		
<= 66		
> 66	Exposure D+	

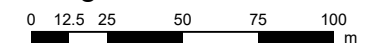


Signs and symbols

- Modelled Roads
- Building
- Subject Site
- 3m High Noise Wall

20 Mar 2024

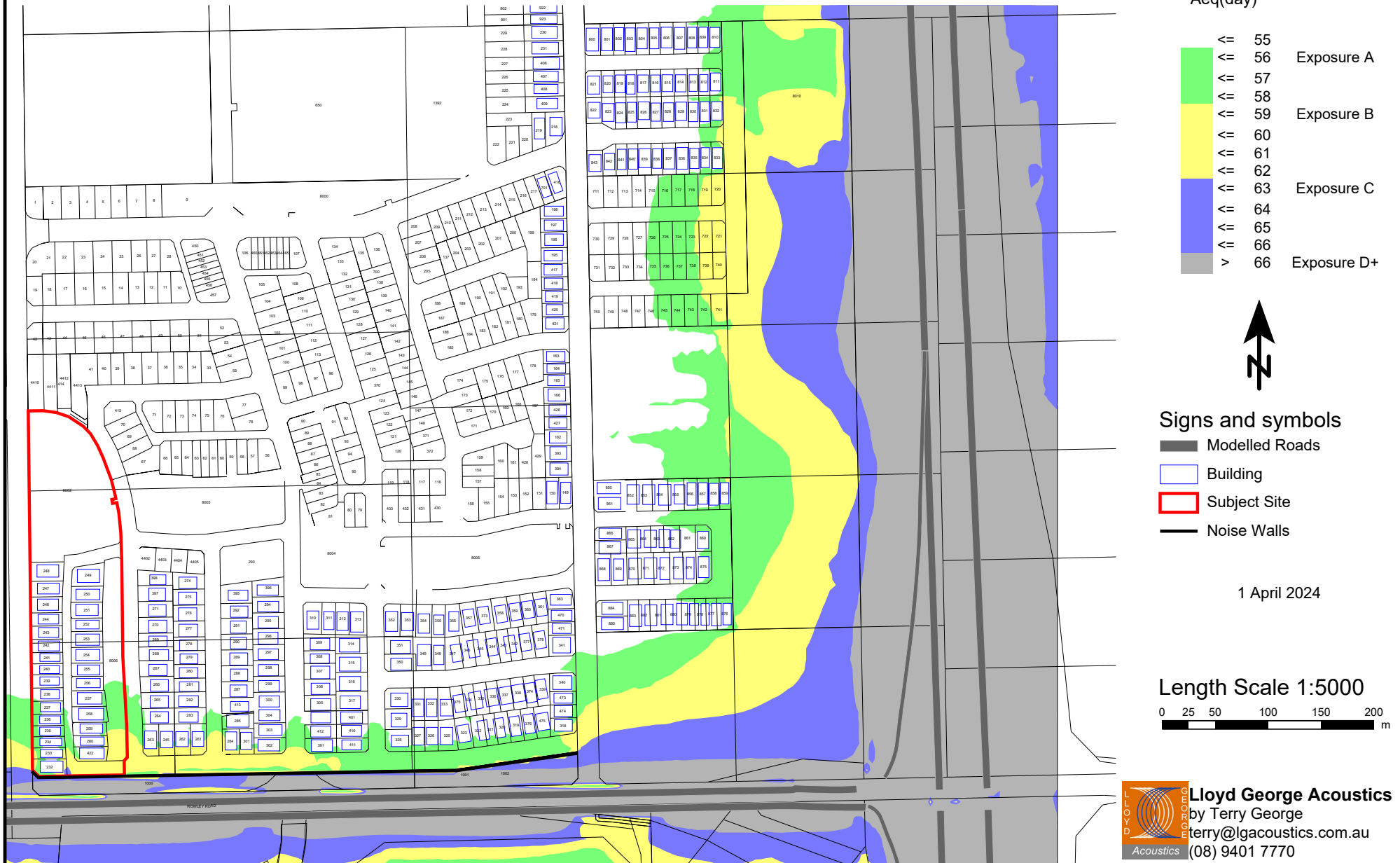
Length Scale 1:2500



Vivente Subdivision: Ultimate Scenario

L_{Aeq}(Day) Noise Level Contours - Future
Includes 3m High Noise Wall Along Rowley Road

Figure 4-1 RevA



Noise levels
L_{Aeq}(day) dB

<= 55	
<= 56	Exposure A
<= 57	
<= 58	
<= 59	Exposure B
<= 60	
<= 61	
<= 62	
<= 63	Exposure C
<= 64	
<= 65	
<= 66	
> 66	Exposure D+

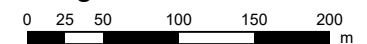


Signs and symbols

- Modelled Roads
- Building
- Subject Site
- Noise Walls

1 April 2024

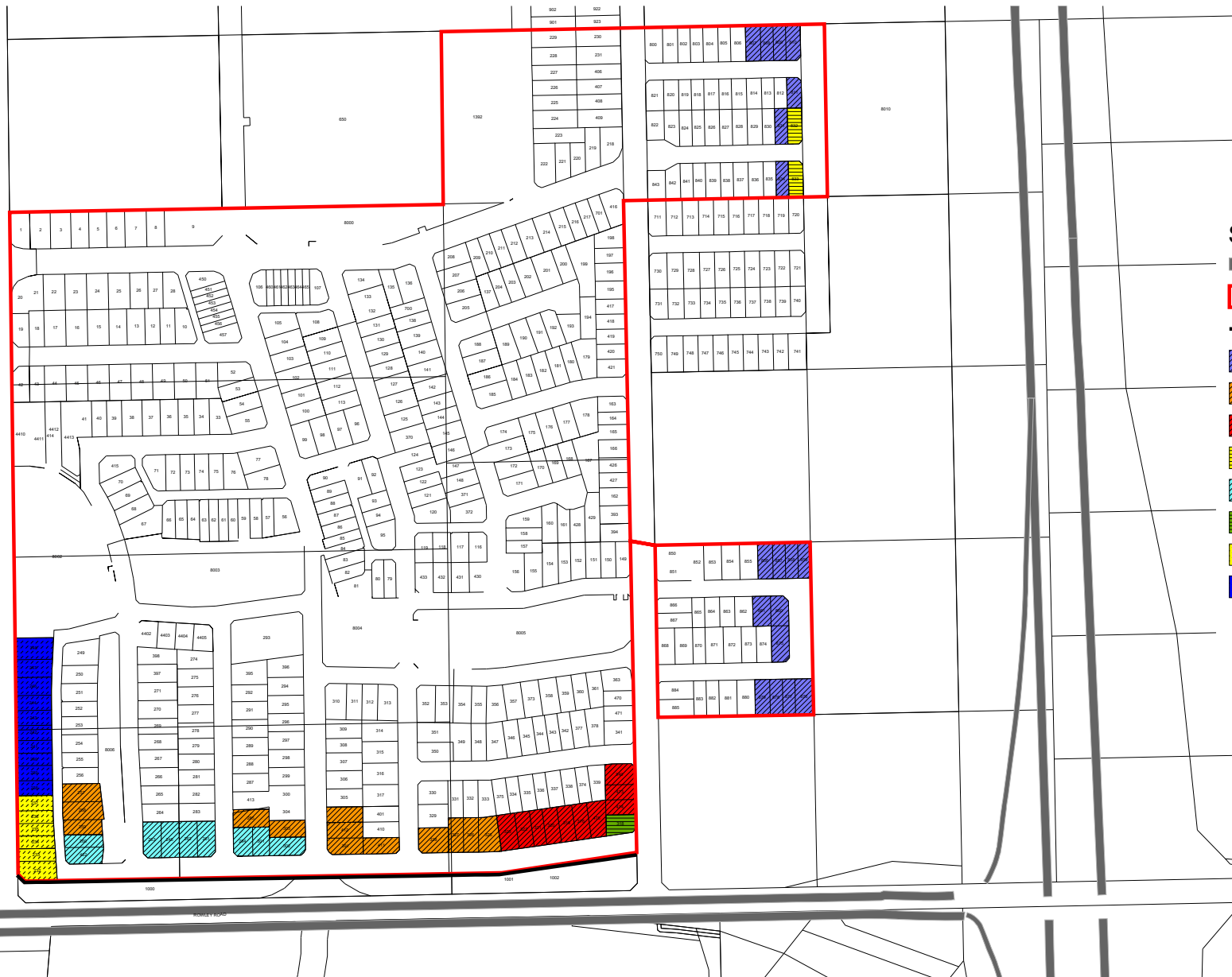
Length Scale 1:5000



Vivente Subdivision: Ultimate Scenario

LAeq(Day) Noise Level Contours - Future
Includes 3m High Noise Wall Along Rowley Road

Figure 5-1 RevB



Signs and symbols

- Road Lanes
- Subject Site
- Noise Walls
- Package A (Kwinana Fwy)
- Package A (Rowley Rd)
- Package A (Kwinana & Rowley)
- Package B (Kwinana Fwy)
- Package B (Rowley Rd)
- Package B (Kwin & Rowley)
- Package C (Rowley & Frankland)
- Package C (Frankland)

24 April 2024

Length Scale 1:5000

