

MEMO

Oof	Auckland Airport	Document No.:	Mm 008 r02		
Project:					
To:	Auckland Airport Ltd	Date:	15 May 2024		
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Delivery:	Email	Project No.:	2015175A		
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Subject:	Temporary monitor summary - Beachlands				

The Beachlands monitor was deployed for 18 months

The Beachlands monitor was deployed on 4 November 2022 at Weatherly Drive. After 18 months the monitor was uninstalled on 29 April 2024 (as the house was for sale).

The Beachlands monitor was installed to measure aircraft turning on their arrival route

The Beachlands monitor was installed to measure noise from aircraft turning at the 12nm mark to join the runway centreline approach and to monitor Sydney Night STAR (standard Western arrival route).

Background context for the Sydney Night STAR

In 2018 new STAR (standard arrival routes) were developed as alternative routes for night-time flights arriving from Brisbane/North Australia and Melbourne/South Australia. These new routes removed two-thirds of the night-time flights flying over western and central Auckland on the standard Night STAR.

The Ōrākei Local Board Representative requested a new alternative route be developed for the Sydney Night STAR flights (which currently use the standard Night STAR), discussion papers were presented to the ANCCG in 2022 to assess the feasibility. After a full review of these papers, the ANCCG consensus was that the Sydney night flights should continue on the current STAR (due to many impacts such as safety risks and increased carbon impact).

The graphs overleaf show low noise levels and numbers of louder flights

Overleaf are two graphs showing the noise levels (monthly Aircraft Noise Exposure in L_{dn}) and the number of louder flights at Beachlands. These are similar to the graphs in the ANCCG quarterly reports but focussing only on Beachlands and showing the time period from its installation to 16/04/2024.

Conclusions

- From the first graph, we can see the noise levels are well below the NZS 6805 Guideline of 55 dB L_{dn} (on average 10dB lower).
- The second graph shows there is on average fewer than 1 flight a day that exceeds 70 dB L_{Amax} .
- The data collected shows the noise from aircraft at the Beachlands monitor is relatively low. This is to be expected considering the distance from the airport (Beachlands is well outside of the Aircraft Noise Areas) and the small number of flights flying past Beachlands (on average there are 16 per day since its installation).
- Also of note, the airport has received only one complaint from the area during the monitor’s deployment period. This complaint was from a repeat complainant and was submitted during the day (4pm).
- Because of the reasons outlined above, we consider that there no longer remains any technical reason to continue noise monitoring at Beachlands so therefore accept the removal of the noise monitor.



Figure 1: Beachlands AIAL NMT - Measured monthly noise exposure (L_{dn})

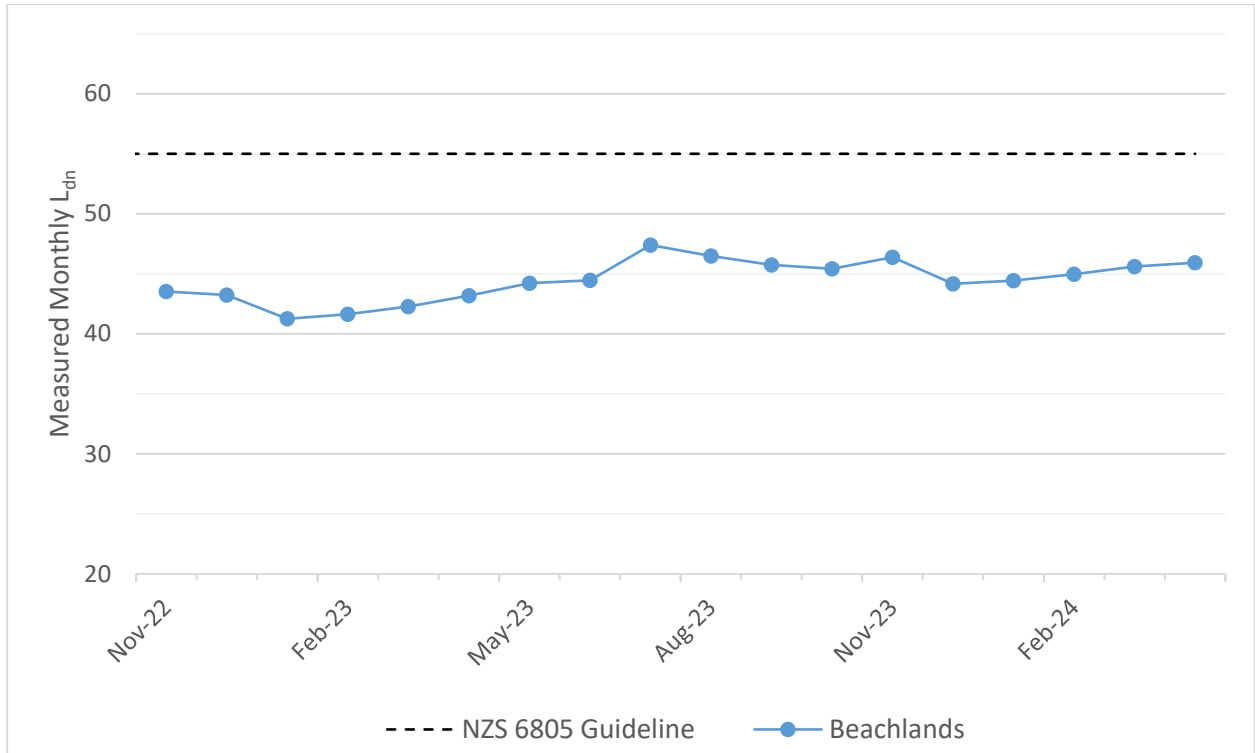
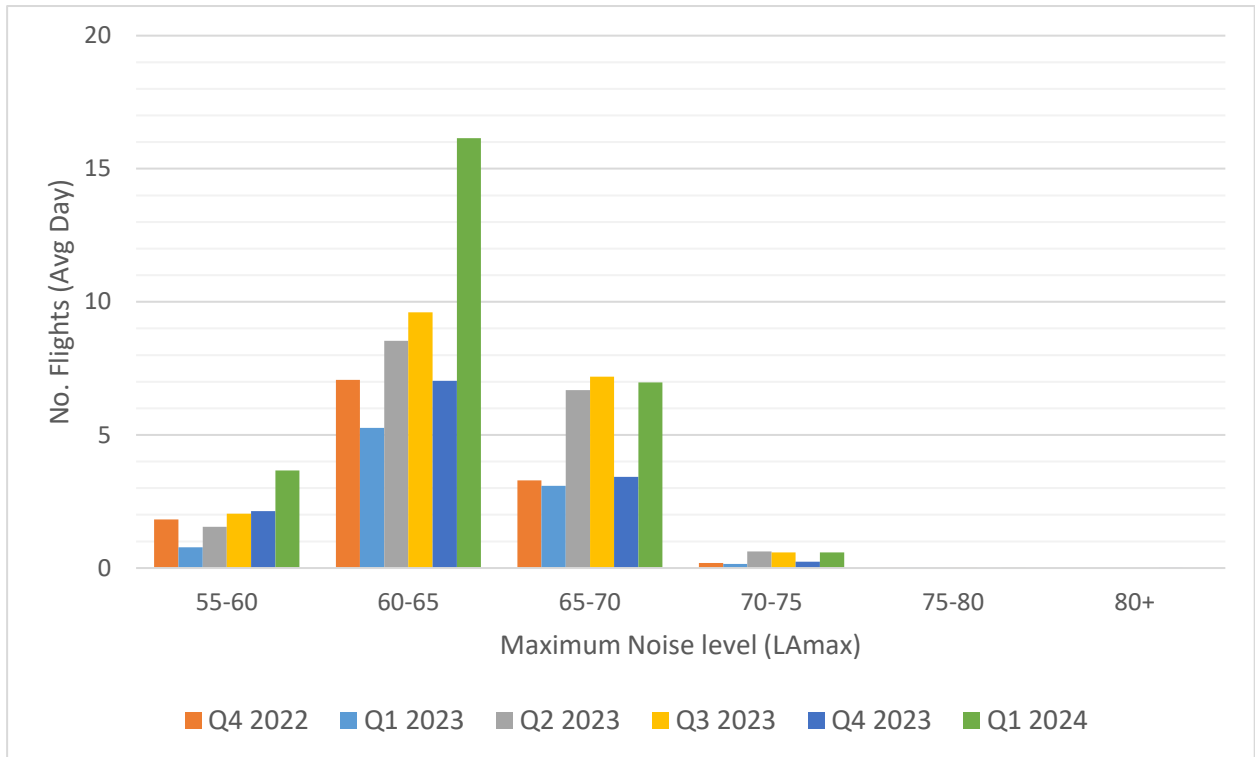


Figure 2: Beachlands AIAL NMT - Noise Events (All time)¹



¹ Noise events over 70-75 L_{Amax} start to become disturbing to residents if they are inside their house with their windows open. This is because they have the potential to interfere with watching tv or talking.