

**Dr Stephen Chiles for QLDC – Summary of Evidence, 21 July 2017  
Queenstown Mapping - Hearing Stream 13**

1. Submitter #715<sup>1</sup> proposes to rezone part of Homestead Bay to Jacks Point Zone, and has proposed a revised structure plan that incorporates this area. This revised structure plan would result in residential areas being located close to the existing NZone skydiving airstrip and associated flight paths.
2. The existing skydiving airstrip is consented and long-established with regular light aircraft flights and parachute landings. Information about sound from this activity is available from investigations undertaken in association with a resource consent application in 2012.<sup>2</sup> However, that information is limited in its use as it is for sound received to the north and west of the airstrip. Unless further measurements are conducted, sound levels to the south of the airstrip in the Homestead Bay area can only be estimated from known sound levels to the north and west.
3. In accordance with guidance in NZS 6805: 1992, Airport noise management and land use planning, to manage adverse noise effects I consider that residential development should be avoided within a 55 dB L<sub>dn</sub> sound level contour around the Jacks Point airstrip.
4. Sound level measurements in the Homestead Bay area would be required in order to reliably draw a 55 dB L<sub>dn</sub> contour. Such measurements have not been made previously and have not been made available by Submitter #715.
5. On the basis of the sound levels to the north and west of the airstrip, I estimate the 55 dB L<sub>dn</sub> contour may extend to the south in the order of 600 metres from the airstrip and 200 metres from the main arrivals/landing flight path. These distances are greater than the equivalent distances to the north, because to mitigate noise effects on properties to the north, aircraft are orientated so that higher sound emissions occur to the south when idling.
6. The revised structure plan proposed by submitter #715 includes residential activity in areas likely to be within the 55 dB L<sub>dn</sub> sound level contour. In my opinion there are likely to be adverse noise effects that cannot be mitigated, and therefore, residential activity in these areas should be avoided. In the context of this zone, which has a greater emphasis on outdoor amenity, treating individual buildings would not be effective in my view.

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1 Jardine Family Trust, Remarkables Station Ltd and Homestead Bay Trustees Ltd.

2 This was a direct referral to the Environment Court, where the consent application RM120052 to extend the existing skydiving operations was declined.