

The Proposed Auckland Unitary Plan (notified 30 September 2013)

1.1 Airport Approach Path

1. Activity table

The following table specifies the activity status of activities in the Airport Approach Path overlay.

Detailed height restriction diagrams for Kaipara Flats Airfield, North Shore Airfield, Auckland Gliding Club and Parakai Airfield are contained in this overlay section of the Unitary Plan. Auckland Airport (AIA), Whenuapai Airbase and Ardmore Airport diagrams are contained in the designation overlay section of the Unitary Plan.

Activity	Activity status
Trees and vegetation	
Removal or topping of a tree that protrudes into the airfield height restriction shown in clause 3 Airport Approach Path Maps 1 - 4 below	P

2. Development controls

2.1 Height

1. Buildings, structures, masts and trees must not exceed 8m in height or the height limits within the airfield height restrictions shown in clause 3 Airport Approach Path Maps 1 - 4 below, whichever is the lesser.
2. A building, structure, mast or tree that does not comply with clause 2.1 is a prohibited activity.

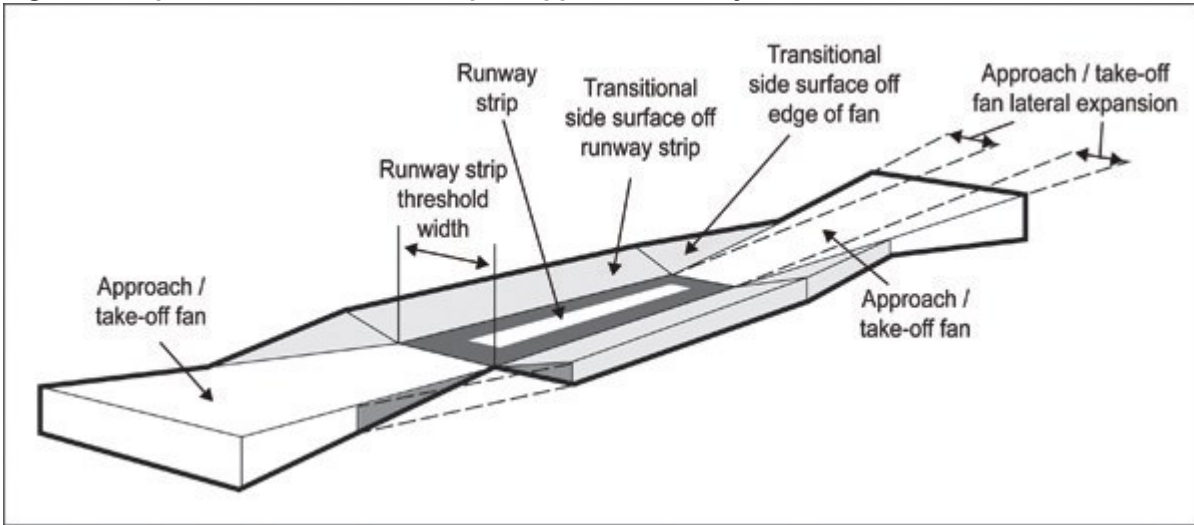
2.2 Measuring Height

1. In determining compliance with clause 2.1.1, the following controls apply.
2. At any point where two surfaces overlap and are at differing elevations, the lower of the two surfaces applies.
3. The height controls consist of three separate height controls around North Shore Airfield and two around Kaipara Flats and Parakai Airfields as follows:
 - a. Take off/landing fans
 - i. These fans extend for 5.5km (north Shore) and 1.2km (Kaipara Flats and Parakai) from each end of each runway. The height limit begins at ground level and rises at a slope of 1 in 40 (North Shore) and 1 in 20 (Kaipara Flats and Parakai).
 - b. Transitional side surfaces
 - i. This height restriction runs at right angles to the runway strip and the centre line of the fans. The height limit begins at ground level at the edge of runway strip and rises at a slope of 1 in 7 (North Shore) and 1 in 4 (Kaipara Flats and Parakai) to a maximum height of 45 metres (North Shore) and 2 metres (Kaipara Flats and Parakai) above the runway ground level. This height limit also applies from the outside edge of each fan, the surface rising at the same slopes to a maximum height of 45 metres (North Shore) and 2 metres (Kaipara Flats and Parakai).
 - c. Horizontal surface
 - i. All properties within 2.6km of North Shore Airfield are subject to a horizontal height control which is 45 metres above the average runway ground level i.e. 107 metres above mean sea level. There is no horizontal surface control for either Kaipara Flats or Parakai Airfields.
4. All height controls are affected by the elevation of the property, and height limits must be assessed in terms of elevation relative to the runway itself.

The Proposed Auckland Unitary Plan (notified 30 September 2013)

5. [Appendix 2.1](#) provides detailed guidance on how to assess whether a proposal complies with the height controls.

Figure 1: Explanation of terms for airport approach overlay calculations



The following table below gives the specifications for the three airfields:

Table 1:

Feature	North Shore	Kaipara Flats	Parakai
Runway threshold ground level above mean sea level	Main Runway: East End 65m West End 63m Crosswind Runway: East End 63m West End 60m	East End 33m West End 33m	East End 5m West End 6m
Runway strip width	90m	100m	65m
Approach/take-off fan			
Length (from runway threshold)	5,500m	1,200m	1,200m
Slope (rate of rise)	1 in 40	1 in 20	1 in 20
Lateral expansion	1 in 10	1 in 20	1 in 20
Transitional side surface			
Slope (rate of rise)	1 in 7	1 in 4	1 in 4
Maximum height above runway	45m	2m	2m
Horizontal surface			
Height	107m above sea level	N/A	N/A
Lateral extent	2.6km from edge of runway strip	N/A	N/A

3. Airport Approach Path maps

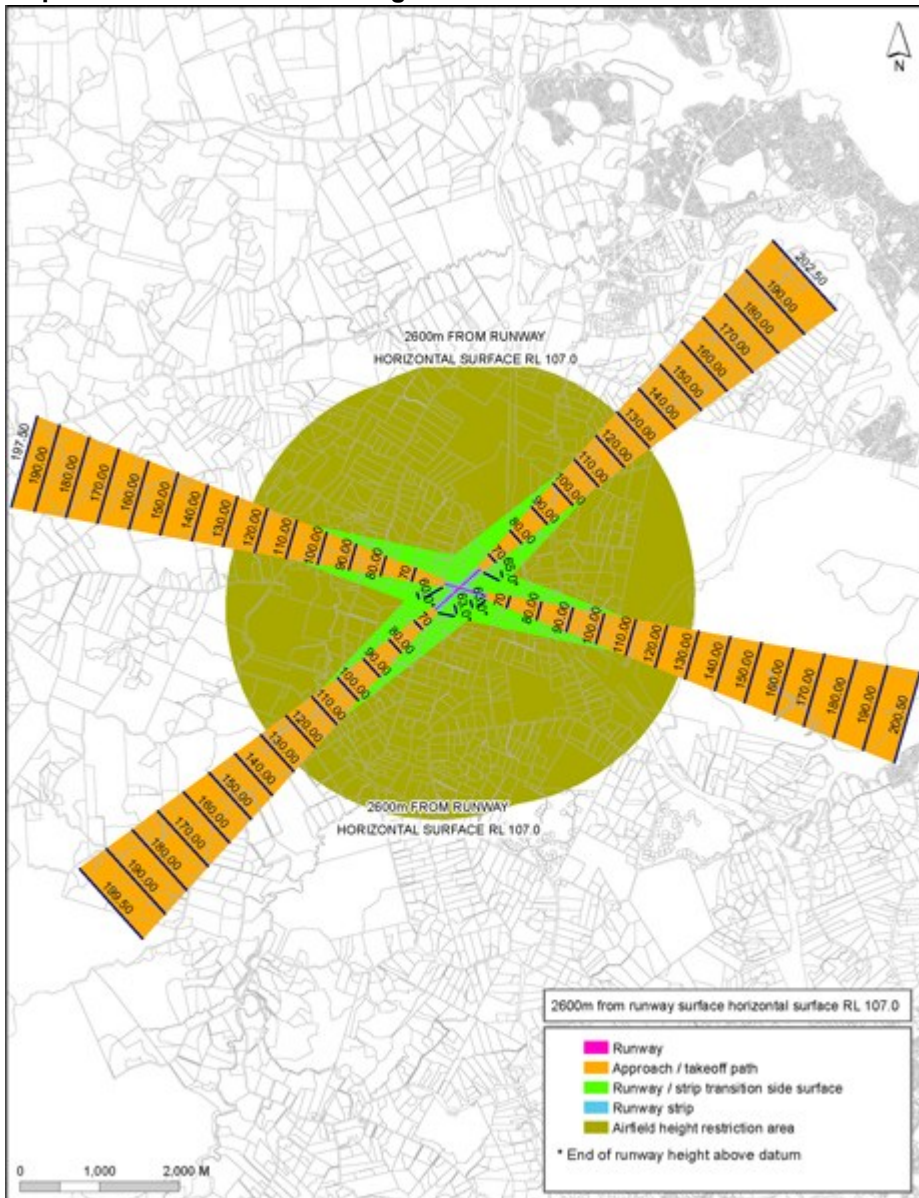
Map 1: Kaipara Flats airfield height restriction

The Proposed Auckland Unitary Plan (notified 30 September 2013)



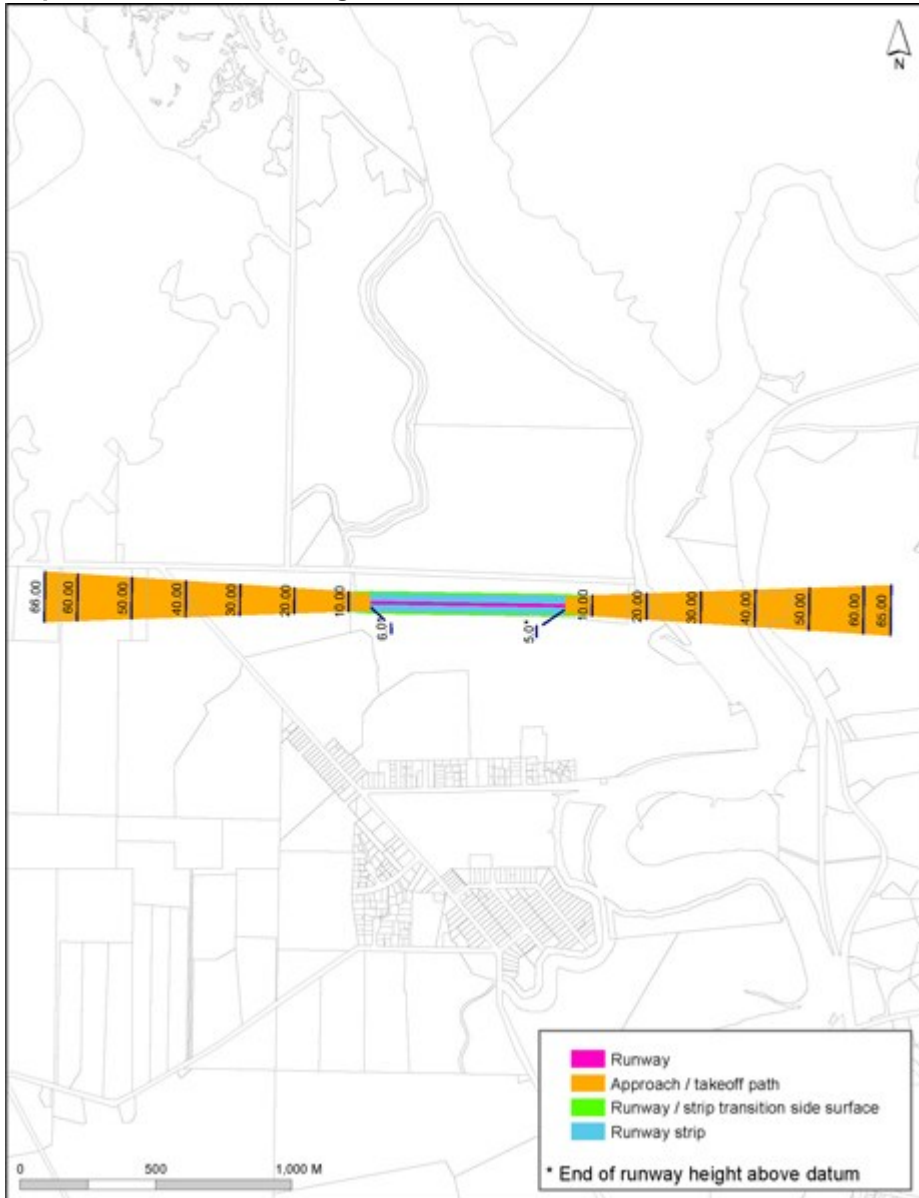
The Proposed Auckland Unitary Plan (notified 30 September 2013)

Map 2: North Shore airfield height restriction



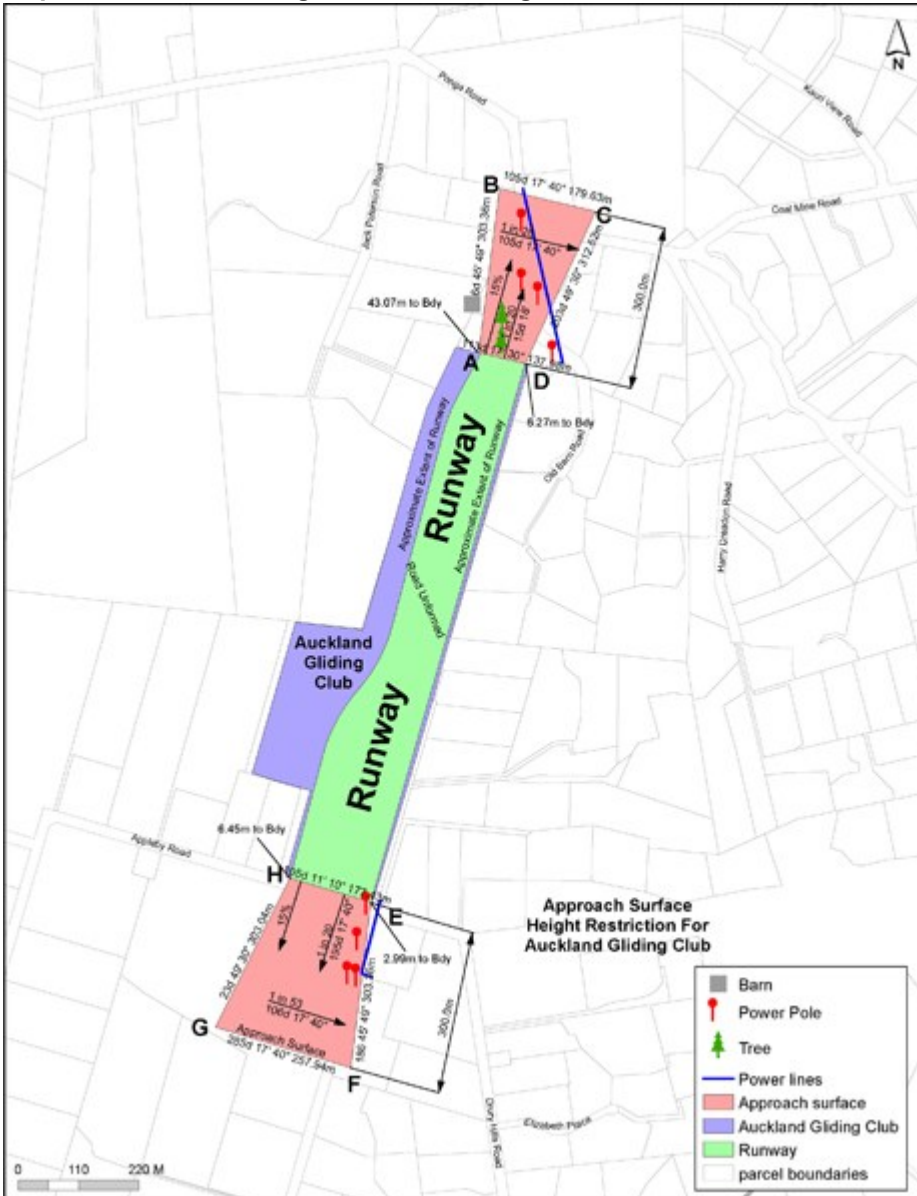
The Proposed Auckland Unitary Plan (notified 30 September 2013)

Map 3: Parakai airfield height restriction



The Proposed Auckland Unitary Plan (notified 30 September 2013)

Map 4: Auckland Gliding Club airfield height restrictions



The Proposed Auckland Unitary Plan (notified 30 September 2013)