

Appendix 1 – Officers Recommended Amendments to Noise Chapter

Note the below provisions represent the Section 42A Report Writing Officer's recommended amendments to the provisions of the Proposed District Plan, in response to submissions (with underline used for new text and ~~strikethrough~~ for deleted text).

Overview

The Far North District is diverse with a range of rural and urban areas, made up of large tracts of rural land, small rural communities and towns. Noise emissions are an intrinsic part of the way we live and play a role in the operation and function of the district's economy. Noise can be the cause of annoyance, impacting community health, wellbeing, ~~and~~ the quality of living environments, and indigenous fauna¹. The level of noise annoyance can depend on the character, nature, duration and location that noise is being generated. The background noise level of different areas also contributes to the character and quality of a place and vary between rural and urban settings. Rural areas generally have lower background noise levels, but it is accepted that there may be times where machinery associated with primary production will be used. Urban environments can have higher background noise levels compared with rural environments and can influence what levels are acceptable across the district.

It is important that noise and noise-generating activities are managed to a level that is appropriate and of a level that is generally accepted across different environments. There is a tension between enabling noise-generating activities and those activities that are sensitive to noise. The noise controls and standards focus on noise limits that are appropriate for each zone and for specific activities. This includes standards for noise insulation for noise-sensitive activities in locations that may have elevated noise levels.

The noise rules and standards in this chapter provide the noise limits for each zone and for specific activities. The chapter also sets out where sound insulation is required for noise sensitive activities, and/or limits the location of noise sensitive activities relative to other activities which have elevated noise levels. Noise levels must be measured in accordance with NZS 6801:2008: Acoustics Measurement of Environmental Sound and assessed in accordance with NZS 6802:2008: Acoustics Environmental Noise except where expressed otherwise.

Council has responsibilities under the RMA to manage noise, however, it is important to note that some activities are exempt from the noise rules set out in this section as they are controlled by another Act or are controlled by section 16 and 17 of the RMA.

Objectives	
NOISE-O1	Activities generate noise effects that are compatible with the role, function and character of each zone and do not compromise community health, safety and wellbeing.
NOISE-O2	New noise sensitive activities are designed and/or located to minimise conflict, and reverse sensitivity effects <u>and to protect community health and wellbeing</u> . ²
Policies	
NOISE-P1	Uphold the character and amenity of each zone by controlling the types of activities and noise levels that are permitted in each zone.

¹ S399.071

² S356.106

NOISE-P2	Ensure noise sensitive activities proposing to locate within the Mixed Use, Light Industrial, <u>on land near state highways,³ and Air Noise Boundary and in close proximity of regionally significant infrastructure within these areas⁴</u> are located, designed, constructed and operated in a way which will minimise adverse noise on community health, safety and wellbeing by having regard to: <ol style="list-style-type: none"> any existing noise generating activities and the level of noise that will be received within any noise sensitive building; the primary purpose and the frequency of use of the activity; and the ability to design and construct buildings accommodating noise sensitive activities with sound insulation and/or other mitigation measures to ensure the level of noise received within the building is minimised particularly at night.
NOISE-P3	Ensure noise effects generated by an activity are of a type, scale and level that are appropriate for the predominant role, function and character of the receiving environment by having regard to: <ol style="list-style-type: none"> type, scale and location of the activity in relation to any noise sensitive activities; hours of operation and duration of activity; the temporary or permanent nature of any adverse effects; and the ability to internalise and/or minimise any conflict with adjacent activities.
Rules	

Note:

- There may be rules in other District-Wide Matters and the underlying zone in Part 3 - Area Specific Matters that apply to a proposed activity, in addition to the rules in this chapter. These other rules may be more stringent than the rules in this chapter. Ensure that the underlying zone chapter and other relevant District-Wide Matters chapters are also referred to, in addition to this chapter, to determine whether resource consent is required under other rules in the District Plan. Refer to the how the plan works chapter to determine the activity status of a proposed activity where resource consent is required under multiple rules.**

Noise shall be measured in accordance with NZS 6801:2008: Acoustics Measurement of Environmental Sound, and assessed in accordance with NZS 6802:2008: Acoustics Environmental Noise, unless otherwise specified elsewhere in the District Plan.

The noise rules and effects standards do not apply to noise generated by the following activities:

- normal residential activity such as children's play, lawn mowing, house maintenance and entertainment;
- aircraft being operated during flight;
- vehicles being driven on a road (within the meaning of Section 2(1) of the Transport Act 1998), or within a site as part of, or compatible with, a normal residential activity;
- trains on rail lines (public or private) and crossing bells within road reserve, including at railway yards, railway sidings or stations. However, this exemption does not apply to the testing (when stationary), maintenance, loading or unloading of trains;
- agriculture, horticulture and pastoral farming activities undertaken for a limited duration, including using agricultural vehicles, machinery or equipment used on a seasonal or intermittent basis, ~~forestry planting and forestry harvesting~~⁵ in the Rural Production, Horticulture and Horticulture Processing zones;
- motorcraft operating on the surface of waterbodies;
- any warning device or siren used by emergency services for emergency purposes (and routine testing and maintenance);

³ S356.107

⁴ S483.182

⁵ S516.066

8. the use of generators and mobile equipment (including vehicles) for emergency purposes, including testing and maintenance ~~not exceeding 48 hours in duration~~, where they are operated by emergency services or lifeline utilities; provided that the use of generators for testing and maintenance purposes is limited to a cumulative time of 12 hours per year;⁶
9. activities at emergency service facilities associated with emergency response and emergency response training;
10. Emergency helicopter operation associated with Bay of Islands, Rawene or Kaitaia Hospital, or any other emergency helicopter activity that occurs away from a permanently established helicopter base. helicopters used for an emergency and as an air ambulance;⁷
11. impulsive sounds (such as hammering and bangs) and dog barking noise which are poorly assessed by reference to NZS 6802:2008: Acoustics Environmental Noise;
12. the control of crowd noise at a park or reserve;
13. unamplified noise from organised sporting events in the Open Space and Sport and Active Recreation zones where these occur for up to 20 hours per week between 7am and 7pm; or
14. unamplified noise from standard outdoor activities at schools where this occurs between 7.00 am to 7.00 pm Monday to Sunday.
15. The use of firearms for hunting purposes. This exemption does not apply to rifle ranges, pistol clubs or other such permanently established firearms ranges;⁸
16. Noise and vibration associated with commercial forestry. This activity is controlled by the National Environmental Standards for Commercial Forestry 2017 (NES-CF) Regulation 98;⁹
17. Agricultural aviation if compliance can be achieved with TA-R#;¹⁰

NOISE-R1	Emission of noise (not otherwise provided for in this chapter)	
All zones	Activity status: Permitted Where: PER-1 Noise generated from any activity on a site complies with standard: NOISE-S1 Maximum noise levels.	Activity status where compliance not achieved with PER-1: Restricted Discretionary Matters of discretion are restricted to: a. any relevant matter of discretion in the infringed standard; and b. the extent and effect of non-compliance with the relevant noise standard.
NOISE-R2	New buildings, alterations and/or additions to an existing building for a noise sensitive activity	
All zones	Activity status: Permitted Where: PER-1 All habitable rooms comply with the noise insulation for noise sensitive activities effect	Activity status where compliance not achieved with PER-1: Restricted Discretionary Matters over which discretion is restricted:

⁶ S483.183

⁷ S243.105 and others

⁸ S436.041 and others

⁹ S148.040 and others

¹⁰ S143.009 and others

	standards which are relevant to the underlying zone or specific area identified: NOISE-S5 Noise insulation.	a. any relevant matter in the infringed standard.
NOISE-R3 Noise from temporary activity		
All zones	<p>Activity status: Permitted</p> <p>Where:</p> <p>PER-1 The noise generated complies with standard: NOISE-S2 Temporary events standards.</p>	<p>Activity status where compliance not achieved with PER -1: Restricted Discretionary</p> <p>Matters over which discretion is restricted:</p> <p>a. any relevant matter of discretion in the infringed standard; and</p> <p>b. the extent and effect of non-compliance with the relevant noise standard.</p>
NOISE-R4 Construction noise		
All zones	<p>Activity status: Permitted</p> <p>Where:</p> <p>PER-1 The noise from construction activities undertaken on a site complies with the guidelines and recommendations of the New Zealand Standard NZS 6803:1999: Acoustics Construction Noise.</p>	<p>Activity status where compliance no achieved with PER-1: Restricted Discretionary</p> <p>Matters of discretion are restricted to:</p> <p>a. the level, hours of operation, duration and nature of the noise;</p> <p>b. proximity and nature of nearby activities and the adverse effects they may experience from the noise;</p> <p>c. the existing noise environment;</p> <p>d. effects on character and amenity values on the surrounding environment;</p> <p>e. effects on the health and wellbeing of people;</p> <p>f. any noise reduction measures; and</p> <p>g. potential building damage effects.</p>
NOISE-R5 Noise from temporary military training activity		
All zones	<p>Activity status: Permitted</p> <p>Where:</p> <p>PER-1 Noise generated from fixed (stationary) noise sources complies with standard: NOISE-S3 Temporary military training;</p> <p>PER-2 Noise generated from mobile noise sources must comply with the noise limits set in Tables 2</p>	<p>Activity status where compliance not achieved with PER-1: Restricted Discretionary</p> <p>Matters of discretion are restricted to:</p> <p>a. the matters of any infringed standard.</p> <p>Activity status where compliance no achieved with PER-2: Restricted Discretionary</p>

	<p>and 3 of NZS 6803:1999: Acoustics Construction Noise.</p> <p>PER-3 <u>Temporary military training helicopter activity that complies with the guidelines of NZS6807:1994 Noise Management and Land Use Planning for Helicopter Landing Areas.</u>¹¹</p>	<p>Matters of discretion are restricted to:</p> <ol style="list-style-type: none"> the level, hours of operation, duration and nature of the noise; proximity and nature of nearby activities and the adverse effects they may experience from the noise; the existing noise environment; effects on character and amenity values on the surrounding environment; effects on the health and wellbeing of people; and any noise reduction measures.
NOISE-R6	Noise from a temporary military training activity involving weapons firing and/or the use of explosives	
<p>Rural Production zone All zones¹²</p>	<p>Activity status: Permitted</p> <p>Where:</p> <p>PER-1 At least 5 working days prior to the commencement of the activity, notify the Council of the activity, including details of the nature, duration and scale of activity, and any consultation that has been undertaken;</p> <p>PER-2 The activity complies with the following: 1. occurs between the hours of 7.00am to 7.00pm, and achieves either a 500m minimum separation distance to, or peak sound pressure level of 95 dB LCpeak dBC when measured within the notional boundary of any noise sensitive activity; and/or 2. occurs between 7.00pm to 7.00am, and achieves either a 1250m minimum separation distance to, or peak sound pressure level of 85 dB LCpeak dBC¹³ when measured within, the notional boundary of any noise sensitive activity;</p> <p>PER-3 The activity complies with standard: NOISE-S6 Explosives (<u>excluding airblast limits</u>)¹⁴.</p>	<p>Activity status where compliance not achieved with PER-1, PER-2 or PER-3: Discretionary</p>

¹¹ S217.011 and others

¹² S217.014

¹³ S516.067

¹⁴ S217.016

NOISE-R7 Helicopter landing areas		
All zones	<p>Activity status: Permitted</p> <p>Where:</p> <p>PER-1 Flight movements are for emergency purposes such as medical emergencies, search and rescue or firefighting purposes;¹⁵</p> <p>PER-2 The helicopter landing site complies with standard: NOISE-S4 Helicopter landing areas.</p> <p>This standard does not apply to:</p> <ul style="list-style-type: none"> i. Emergency or rescue helicopter operation occurring to or from Bay of Islands, Rawene or Kaitaia Hospital (excludes established helicopter bases on hospital land); ii. Emergency or rescue helicopter landings, departures, overflights or activity during operations that occur away from the permanently established helicopter base; or iii. Cropping, top dressing, and spraying for the purpose of farming or conservation carried out in the Rural Production, Horticulture zones, or within Significant Natural Area on a seasonal, temporary, or intermittent basis for a period up to 30 days in any 12 month period.¹⁶ 	<p>Activity status where compliance not achieved with PER-1 or PER-2: Discretionary</p>
NOISE-R8 Audible bird scaring devices		
Rural Production zone	<p>Activity status: Permitted</p> <p>Where:</p>	<p>Activity status where compliance not achieved with PER-1 or PER-2: Restricted Discretionary</p>
Horticulture zone	<p>PER-1 Audible Bbird scaring devices must only be used between sunrise and sunset 7.00am and 7.00pm on any calendar year;¹⁷</p>	<p>Matters of discretion are restricted to:</p> <ul style="list-style-type: none"> a. the level, hours of operation, duration and nature of the noise; b. proximity and nature of nearby activities and the adverse effects they may experience from the noise; c. the existing noise environment;
Ngawha Innovation and Enterprise Park zone	<p>PER-2 Bird scaring events from any device shall operate at:</p> <ul style="list-style-type: none"> i. Not more than 6 events per hour where an event includes clusters of up to three 	

¹⁵ S167.087 and others

¹⁶ S182.021 and others

¹⁷ S159.089

	<p>shots from percussing type devices or three individual shots from a firearm in quick succession,¹⁸ and</p> <p>ii. A maximum noise level frequency of 65 dB LAE within the notional boundary of any noise sensitive activity not owned by the operator of the device;</p> <p>PER-3 The audible bird scaring device complies with standard: NOISE S1 Maximum Noise Levels.¹⁹</p> <p>This standard does not apply to: audible bird scaring devices that generate a noise level less than 55 dB LAE within the notional boundary of any noise sensitive activity not owned by the operator of the device.</p>	<p>d. effects on character and amenity values on the surrounding environment;</p> <p>e. effects on the health and wellbeing of people; and</p> <p>f. any noise reduction measures.</p> <p>Activity status where compliance not achieved with PER-3: Non-complying</p>
NOISE-R9	Noise from frost fans and horticultural wind machines	
<p>Rural Production zone</p> <p>Horticulture zone</p> <p>Ngawha Innovation and Enterprise Park</p>	<p>Activity status: Permitted</p> <p>Where:</p> <p>PER-1 The use is for the protection of crops from frost only;</p> <p>PER-2 Maintenance on frost fans and horticultural wind machines is undertaken during daylight hours, that is, from 7am to 10pm;</p> <p>PER-3 The maximum noise generated by a single or multiple frost fans shall not exceed 55 dB LAeq(15min) at any time when assessed within the notional boundary of any noise sensitive activity on another site, <u>no adjustment applied for any special audible characteristics.</u>²⁰</p> <p>Note: The noise limit includes a correction for the special audible characteristics of frost fans.²¹</p>	<p>Activity status where compliance not achieved with PER-1, PER-2 or PER-3: Restricted Discretionary</p> <p>Matters of discretion are restricted to:</p> <p>a. the level, hours of operation, duration and nature of the noise;</p> <p>b. proximity and nature of nearby activities and the adverse effects they may experience from the noise;</p> <p>c. the existing noise environment;</p> <p>d. effects on character and amenity values on the surrounding environment;</p> <p>e. effects on the health and wellbeing of people; and</p> <p>f. any noise reduction measures.</p>
NOISE-R10	Mineral extraction activity	
<p>Rural Production zone</p>	<p>Activity status: Permitted</p> <p>Where:</p>	<p>Activity status where compliance not achieved: Discretionary under NOISE- R11</p>

¹⁸ S159.089

¹⁹ FS354.181

²⁰ S516.070

²¹ S516.070

	<p>PER-1 The activity complies with standards: NOISE- S1 Maximum noise levels; and NOISE - S6 Explosives.</p>	
NOISE-R11	Noise from blasting	
All zones	Activity status: Discretionary	Activity status where compliance not achieved: Not applicable
Standards		
NOISE-S1²²	Maximum noise levels – zone specific General noise rules applying to noise emitted from all zones and overlays (unless provided for by a specific standard elsewhere)	

<p><u>Receiving zone</u></p> <p><u>General Residential zone</u></p> <p><u>Māori Purpose - Urban</u></p> <p><u>Rural Residential zone</u></p> <p><u>Kororāreka Russell Township zone</u></p> <p><u>Hospital zone</u></p> <p><u>Natural Open Space</u></p>	<p><u>Noise rule</u></p> <p>Noise generated by any activity shall not exceed the following noise limits at any point within any other site in the General Residential, Kororāreka Russell Township zone or Rural Residential zone:</p> <p><u>a) Noise generated in all zones, other than the zones in b) and c) below:</u></p> <p>Noise shall not exceed the following rating noise levels at any point within the received property boundary:</p> <p>a. 7.00 am to 10.00 pm —(daytime): 50 dB L_{Aeq} (15min);</p> <p>b. 10.00 pm to 7.00 am – (night-time): 40 dB L_{Aeq} (15 min); and</p> <p>c. 10.00 pm to 7.00 am—70 dB LAF_{max}.</p> <p><u>b) Noise generated in Mixed Use, Light Industrial, Horticultural Processing facilities, Ngawha Innovation and Enterprise Park or Orongo Bay zones, or from non-aircraft operation activity within an Airport Zone:</u></p> <p><u>Noise shall not exceed the following rating noise levels at any point within the receiving property boundary:</u></p> <p><u>7.00 am to 10.00pm (daytime): 55dBL_{Aeq}</u></p>	<p>Matters of discretion if compliance not achieved:</p> <ol style="list-style-type: none"> ambient noise levels and any special character noise from any existing activities, the nature and character of any changes to the sound received at any receiving site and the degree to which such sounds are compatible with the surrounding activities; type, scale and location of the activity in relation to any noise sensitive activities; hours of operation and duration of activity; the temporary or permanent nature of any adverse effects; the ability to internalise and/or minimise any conflict with adjacent activities; and any mitigation proposed, in accordance with the best practicable option approach (e.g. site layout and design, design and location of structures, buildings and equipment and the timing of operation).
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²² S516.072

<p>10.00pm to 7.00am (night-time): 40 dB LAeq and 75 dB LAFmax</p> <p>c) Noise generated in the Hospital or Heavy Industrial zones or Mineral Extraction Overlays:</p> <p>Noise shall not exceed the following rating noise levels at any point within the receiving property boundary:</p> <p>7.00am to 10.00pm (daytime): 55 dB LAeq 10.00pm to 7.00am (night-time): 46 db LAeq and 75 db LAFmax</p>	
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<u>Receiving zone</u>	<u>Noise rule</u>	<u>Matters of discretion if compliance not achieved:</u>
Rural Production zone	Noise generated by any activity shall not exceed the following limits within the notional boundary of any noise sensitive activity in the Rural Production, Rural Lifestyle or Māori Purpose zones:	<p>a. ambient noise levels and any special character noise from any existing activities, the nature and character of any changes to the sound received at any receiving site and the degree to which such sounds are compatible with the surrounding activities;</p> <p>b. type, scale and location of the activity in relation to any noise sensitive activities;</p> <p>c. hours of operation and duration of activity;</p> <p>d. the temporary or permanent nature of any adverse effects;</p> <p>e. the ability to internalise and/or minimise any conflict with adjacent activities;</p> <p>f. any mitigation proposed, in accordance with the best practicable option approach (e.g. site layout and design, design and location of structures, buildings and equipment and the timing of operation); and</p> <p>g. any mitigation proposed, in accordance with the best practicable option approach (e.g. site layout and design, design and location of structures, buildings and equipment and the timing of operation).</p>
Rural Lifestyle zone	d) Noise generated in all zones, other than the zones in e) and f) below:	
Māori Purpose - Rural zone	Noise shall not exceed the following rating noise levels within the notional boundary of any noise sensitive activity within the receiving property:	
Horticulture zone	a. 7.00 am to 10.00 pm – (daytime): 55 dB LAeq (15min);	
Moturoa Island zone	b. 10.00 pm to 7.00 am – (night-time) 40 dB LAeq (15 min); and	
Kauri Cliffs zone	c. 10.00 pm to 7.00 am – 70 dB LAFmax.	
Ngawha Innovation and Enterprise Park zone	e) Noise generated in Mixed Use, Light Industrial, Horticultural Processing Facilities, Ngawha Innovation and Enterprise Park or Orongo Bay Zones, or from non-aircraft operation activity within an Airport zone:	
Settlement	<p>Noise shall not exceed the following rating noise levels within the notional boundary of any noise sensitive activity within the receiving property:</p> <p>7.00am to 10.00pm (daytime): 55dB LAeq</p> <p>10.00pm to 7.00am (night-time): 40 dB LAeq and 75 dB LAFmax</p>	

	<p><u>f) Noise generated in the Hospital or Heave Industrial zones or in Mineral Extraction Overlays:</u></p> <p><u>Noise shall not exceed the following rating noise levels within the notional boundary of any noise sensitive activity within the receiving property:</u></p> <p><u>7.00am to 10.00pm (daytime): 55 dB LAeq and 75 dB LAFmax</u></p>	
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<p><u>Receiving zone</u></p> <p><u>Settlement zone</u></p> <p><u>Rural Residential</u></p> <p><u>Carrington Estate zone</u></p>	<p><u>Noise rule</u></p> <p><u>g) Noise generated in all zones, other than the zones in h) and i) below:</u></p> <p>Noise generated by any activity shall not exceed the following limits within the notional boundary of any noise sensitive activity in the Settlement zones:</p> <p><u>Noise shall not exceed the following rating noise levels within the notional boundary of any noise sensitive activity within the receiving property:</u></p> <p>-</p> <p>a. 7.00 am to 10.00 pm —(daytime): 50 dB LAeq (15min);</p> <p>b. 10.00 pm to 7.00 am – (night-time) 40 dB LAeq (15 min); and</p> <p>c. 10.00 pm to 7.00 am– 70 dB LAFmax.</p> <p><u>h) Noise generated in Mixed Use, Light Industrial, Horticultural Processing Facilities, Ngawha Innovation and Enterprise Park or Orongo Bay zones, or from non-aircraft operation activity within an Airport zone:</u></p> <p><u>Noise shall not exceed the following rating noise levels within the notional boundary of any noise sensitive activity within the property:</u></p> <p><u>7.00am to 10.00 pm (daytime): 55d B LAeq</u></p> <p><u>10.00pm to 7.00 am (night-time): 40dB LAeq and 75 dB LAFmax</u></p> <p><u>i) Noise generated in the Hospital or Heavy Industrial zones or in Mineral Extraction Overlays:</u></p> <p><u>Noise shall not exceed the following rating noise levels within the notional boundary of any</u></p>	<p>Matters of discretion if compliance not achieved:</p> <ol style="list-style-type: none"> a. ambient noise levels and any special character noise from any existing activities, the nature and character of any changes to the sound received at any receiving site and the degree to which such sounds are compatible with the surrounding activities; b. type, scale and location of the activity in relation to any noise sensitive activities; c. hours of operation and duration of activity; d. the temporary or permanent nature of any adverse effects; e. the ability to internalise and/or minimise any conflict with adjacent activities; f. any mitigation proposed, in accordance with the best practicable option approach (e.g. site layout and design, design and location of structures, buildings and equipment and the timing of operation); and
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<p><u>noise sensitive activity within the receiving property:</u></p> <p>7.00am to 10.00 pm (daytime): 55d B LAeq</p> <p>10.00pm to 7.00 am (night-time): 45dB LAeq and 75 dB LAFmax</p>	
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<p><u>Receiving zone</u></p> <p>Natural Open Space zone</p> <p>Open Space zone</p> <p>Sport and Active Recreation zone</p>	<p><u>Noise rule</u></p> <p>j) <u>Noise generated in all zones</u></p> <p><u>Noise shall not exceed the following rating noise levels at any point within the receiving property boundary:</u></p> <p><u>All times: 55dB LAeq</u></p> <p>Noise generated by any activity shall not exceed the following noise limits at any point within any other site in the Natural Open Space, Open Space, and Sport and Active Recreation zones:</p> <p>-</p> <p>a. 7.00 am to 10.00 pm 50 dB LAeq (15min);</p> <p>b. 10.00 pm to 7.00 am 40 dB LAeq (15 min);</p> <p>and</p> <p>c. 10.00 pm to 7.00 am 70 dB LAFmax;</p>	<p>Matters of discretion if compliance not achieved:</p> <p>a. ambient noise levels and any special character noise from any existing activities, the nature and character of any changes to the sound received at any receiving site and the degree to which such sounds are compatible with the surrounding activities;</p> <p>b. type, scale and location of the activity in relation to any noise sensitive activities; <u>to outdoor activities within the zone;</u></p> <p>c. hours of operation and duration of activity;</p> <p>d. the temporary or permanent nature of any adverse effects;</p> <p>e. the ability to internalise and/or minimise any conflict with adjacent activities;</p> <p>f. any mitigation proposed, in accordance with the best practicable option approach (e.g. site layout and design, design and location of structures, buildings and equipment and the timing of operation); and</p> <p>g. any mitigation proposed, in accordance with the best practicable option approach (e.g. site layout and design, design and location of structures, buildings and equipment and the timing of operation).</p>
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<p><u>Receiving zone</u></p> <p>Mixed Use zone</p>	<p><u>Noise rule</u></p> <p>k) <u>Noise generated in all zones:</u></p> <p><u>Noise shall not exceed the following rating noise levels at any point with the receiving property boundary:</u></p>	<p>Matters of discretion if compliance not achieved:</p> <p>a. ambient noise levels and any special character noise from any existing activities, the nature and character of any changes to the sound received at any receiving</p>
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	<p>Noise generated by any activity shall not exceed the following limits at any point within another site in the zone:</p> <p>Sunday to Thursday</p> <p>a. 7.00 am to 10.00 pm –(daytime) 60 dB LAeq (15min);</p> <p>b. 10.00 pm to 7.00 am –(night-time) 55 dB LAeq (15min); and</p> <p>c. 10.00 pm to 7.00 am – 80 dB LAFmax.</p> <p>Friday and Saturday</p> <p>a. 7.00 am to midnight – (daytime) 60 dB LAeq (15min);</p> <p>b. midnight to 7.00 am - 55 dB LAeq (15 min); and</p> <p>c. midnight to 7.00 am – 80 dB LAFmax.</p> <p>2. Noise generated by any activity shall not exceed the following limits at any point within the boundary of any sites in the General Residential zone, or notional boundary of any noise sensitive activity within the Rural Production, Rural Lifestyle, Rural Residential, Horticulture, or Māori Purpose zones:-</p> <p>a. 7.00am to 10.00pm – 55 dB L(15min);</p> <p>b. 10.00pm to 7.00am – 40 dB L(15min); and</p> <p>c. 10.00pm to 7.00am – 75 dB L AFmax.</p>	<p>site and the degree to which such sounds are compatible with the surrounding activities;</p> <p>b. any existing noise generating activities and the level of noise that will be received within any noise sensitive building;</p> <p>c. the primary purpose and the frequency of use of the activity;</p> <p>d. the ability to design and construct buildings accommodating noise sensitive activities with sound insulation and/or other mitigation measures to ensure the level of noise received within the building is minimised particularly at night;</p> <p>e. any mitigation proposed, in accordance with the best practicable option approach (e.g. site layout and design, design and location of structures, buildings and equipment and the timing of operation); and</p> <p>f. the effects on any existing noise sensitive activities</p>
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<p>Receiving zone</p> <p>Light Industrial zone</p> <p>Orongo Bay</p>	<p>1. Noise generated by any activity shall not exceed the following limits at any point within another site in the zone:—</p> <p><u>l) Noise generated in all zones:</u></p> <p>Noise shall not exceed the following rating noise levels at any point with the receiving property boundary:</p> <p>a. 7.00 am to 10.00 pm –(daytime) 65 dB LAeq (15min);</p> <p>b. 10.00 pm to 7.00 am – (night-time) 60 dB LAeq (15 min); and</p> <p>c. 10.00 pm to 7.00 am – 80 dB LAFmax.</p> <p>2. Noise generated by any activity shall not exceed the following limits at any point within the boundary of any sites in the General Residential zone, or the notional boundary of any noise sensitive activity within the Rural Production, Rural Lifestyle, Rural Residential, Horticulture, or Māori Purpose zones:</p> <p>a. 7.00 am to 10.00 pm – 55 dB LAeq (15min);</p>	<p>Matters of discretion if compliance not achieved:</p> <p>a. ambient noise levels and any special character noise from any existing activities, the nature and character of any changes to the sound received at any receiving site and the degree to which such sounds are compatible with the surrounding activities;</p> <p>b. type, scale and location of the activity in relation to any noise sensitive activities;</p> <p>c. hours of operation and duration of activity;</p> <p>d. the temporary or permanent nature of any adverse effects;</p> <p>e. the ability to internalise and/or minimise any conflict with adjacent activities;</p> <p>f. any mitigation proposed, in accordance with the best practicable option approach (e.g. site layout and design, design and location of structures, buildings</p>
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	<p>b. 10.00 pm to 7.00 am – 40 dB LAeq (15 min); and 10.00 pm to 7.00 am – 75 dB LAFmax-</p>	<p>and equipment and the timing of operation); and g. the effects on any existing noise sensitive activities.</p>
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<p>Receiving zone Heavy Industrial zone Horticulture Processing zone</p>	<p><u>Noise rule</u> m) <u>Noise generated in all zones:</u> <u>Noise shall not exceed the following rating noise level at any point within the receiving property boundary:</u> All times: 75 dB LAeq Noise generated by any activity shall not exceed the following limits at any point within another site in the zone: a. All times – 75 dB LAeq (15min) 2. Noise generated by any activity shall not exceed the following limits at any point within the boundary of any sites in the General Residential zone, or the notional boundary of any noise sensitive activity within the Rural Production, Rural Lifestyle, Rural Residential, Settlement, Horticulture, or Māori Purpose zones: a. 7.00 am to 10.00 pm – 55 dB LAeq (15min); b. 10.00 pm to 7.00 am – 40 dB LAeq (15 min); and c. 10.00 pm to 7.00 am – 75 dB LAFmax-</p>	<p>Matters of discretion if compliance not achieved: a. ambient noise levels and any special character noise from any existing activities, the nature and character of any changes to the sound received at any receiving site and the degree to which such sounds are compatible with the surrounding activities; b. type, scale and location of the activity in relation to any noise sensitive activities; c. hours of operation and duration of activity; d. the temporary or permanent nature of any adverse effects; e. the ability to internalise and/or minimise any conflict with adjacent activities; f. any mitigation proposed, in accordance with the best practicable option approach (e.g. site layout and design, design and location of structures, buildings and equipment and the timing of operation); and g. the effects on any existing noise sensitive activities.</p>
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<p>Mineral extraction overlay-</p>	<p>1. Mineral extraction activities shall not exceed the following limits when measured at any point within the boundary of any site in the General Residential zone, or within the notional boundary of any noise sensitive activity within the Rural Production, Rural Lifestyle, Rural Residential, Settlement, Horticulture, or Māori Purpose zones: a. 7.00 am to 10.00 pm – 55 dB LAeq (15min); b. 10.00 pm to 7.00 am – 40 dB LAeq (15 min); and c. 10.00 pm to 7.00 am – 75 dB LAFmax-</p>	<p>Matters of discretion if compliance not achieved: - a. ambient noise levels and any special character noise from any existing activities, the nature and character of any changes to the sound received at any receiving site and the degree to which such sounds are compatible with the surrounding activities;- b. type, scale and location of the activity in relation to any noise sensitive activities; c. hours of operation and duration of activity; d. the temporary or permanent nature of any adverse effects;</p>
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		<p>e. the ability to internalise and/or minimise any conflict with adjacent activities;</p> <p>f. the effects on any existing noise sensitive activities; and</p> <p>g. any mitigation proposed, in accordance with the best practicable option approach (e.g. site layout and design, design and location of structures, buildings and equipment and the timing of operation).</p>
<p>Orongo Bay zone</p>	<p>1. Noise generated by any activity shall not exceed the following limits at any point within another site in the Orongo Bay zone:</p> <p>a. 7.00 am to 10.00 pm – 65 dB LAeq (15min);</p> <p>b. 10.00 pm to 7.00 am – 60 dB LAeq (15 min); and</p> <p>c. 10.00 pm to 7.00 am – 80 dB LAFmax.</p> <p>2. Noise generated by any activity shall not exceed the following limits at any point within the boundary of any sites in the Orongo Bay zone, or the notional boundary of any noise sensitive activity within any other zone:</p> <p>a. 7.00 am to 10.00 pm – 55 dB LAeq (15min);</p> <p>b. 10.00 pm to 7.00 am – 40 dB LAeq (15 min); and</p> <p>c. 10.00 pm to 7.00 am – 75 dB LAFmax.</p>	<p>Matters of discretion if compliance not achieved:</p> <p>-</p> <p>a. ambient noise levels and any special character noise from any existing activities, the nature and character of any changes to the sound received at any receiving site and the degree to which such sounds are compatible with the surrounding activities;</p> <p>b. type, scale and location of the activity in relation to any noise sensitive activities;</p> <p>c. hours of operation and duration of activity;</p> <p>d. the temporary or permanent nature of any adverse effects;</p> <p>e. the ability to internalise and/or minimise any conflict with adjacent activities;</p> <p>f. the effects on any existing noise sensitive activities; and</p> <p>g. any mitigation proposed, in accordance with the best practicable option approach (e.g. site layout and design, design and location of structures, buildings and equipment and the timing of operation).</p>
<p>Airport zone <u>Applies to aircraft operation and engine testing within the Airport zone</u></p>	<p><u>Within the Airport zone:</u></p> <p>1. Aircraft operation associated with the Airport zone is excluded from compliance with the Noise -S1 zone standards, provided it complies with the following rules</p> <p>2. The maximum noise generated from aircraft operations at the Bay of Islands Airport, Kaitaia Airport and Kaikohe Airport over any 90 continuous days, measured in accordance with</p>	<p>Matters of discretion if compliance not achieved:</p> <p>a. ambient noise levels and any special character noise from any existing activities, the nature and character of any changes to the sound received at any receiving site and the degree to which such sounds are compatible with the surrounding activities;</p>

	<p>NZS 6805:1992 Airport Noise Management and Land Use Planning, shall not exceed:</p> <ul style="list-style-type: none"> a. 55 dB L_{dn} at or beyond the outer control boundary shown on the planning maps; and b. 65 dB L_{dn} at or beyond the air noise boundary shown on the planning maps. <p>3. The maximum noise levels from aircraft engine testing measured in accordance with NZS 6801:2008 Acoustic Measurements of Environmental Sound and assessed in accordance with NZS 6802:2008 Acoustic Environmental Noise at any point within the boundary of a receiving environment site within General Residential, Rural Production, Rural Lifestyle, or Rural Residential zones shall not exceed: notional boundary of a noise sensitive activity on another site shall not exceed:</p> <ul style="list-style-type: none"> a. on any day 7.00 am to 10.00 pm exceed 55 dB LA_{eq} (9 15 min); and b. on any day 10.00 pm to 7.00 am not exceed 45dB LA_{eq} (9 hours) and 75 dB LA_{max}, with the exception that on any 12 nights between hours of 10.00 pm to 7.00 am in any calendar year, the maximum noise levels from aircraft engine testing shall not exceed 50 dB LA_{eq} (9 hour) and 75 dB LA_{max}. 	<ul style="list-style-type: none"> b. any existing noise generating activities and the level of noise that will be received within any noise sensitive building; c. the primary purpose and the frequency of use of the activity; d. the ability to design and construct buildings accommodating noise sensitive activities with sound insulation and/or other mitigating measures to ensure the level of noise received within the building is minimised particularly at night; and e. any mitigation proposed, in accordance with the best practicable option approach (e.g. site layout and design, design and location of structures, buildings and equipment and the timing of operation). f. <u>All potential aircraft noise matters</u>
<p>NOISE-S2 Temporary activities standards</p>		
<p>All zones</p>	<p>1. The noise generated from any temporary activities (excluding temporary military training activities) and emergency management training activities, shall not exceed the following limits at any point:</p> <ul style="list-style-type: none"> a. within the boundary of any General Residential, Rural Residential zone or Kororāreka Russell Township Zone; and b. within the notional boundary of any noise sensitive activity in any Rural Production, Settlement, Rural Lifestyle, Horticulture or Māori Purpose zones: <ul style="list-style-type: none"> i. occur within the hours of 8.00 am to 10.00 pm; and ii. a maximum of four events in any 12 month period on the same site provided that the temporary activity and any pre-event rehearsal do not individually 	<p>Matters of discretion if compliance not achieved:</p> <ul style="list-style-type: none"> a. ambient noise levels and any special character noise from any existing activities, the nature and character of any changes to the sound received at any receiving site and the degree to which such sounds are compatible with the surrounding activities; and b. type, scale and location of the activity in relation to any noise sensitive activities; c. hours of operation and duration of activity; d. the temporary or permanent nature of any adverse effects; e. the ability to internalise and/or minimise any conflict with adjacent activities;

	<p>exceed four hours duration or the following maximum noise levels:</p> <ul style="list-style-type: none"> ▪ 70 dB LAeq (1 hour) ▪ 85 dB Leq (1 min) at 63 Hz ▪ 75 dB <u>Leq</u>²³ (1 min) at 125 Hz or <p>iii. a maximum of two events in any 12 month period on the same site provided that the temporary activity does not exceed 12 hours per day over a maximum duration of three consecutive days and the following maximum noise limits:</p> <ul style="list-style-type: none"> ▪ 60 dB LAeq (1 hour) ▪ 75 dB Leq (1 min) at 63 Hz ▪ 65 dB <u>Leq</u>²⁴ (1 min) at 125 Hz <p>2. The above noise levels can increase by 10 dB (LAeq) where the receiving site is within the Mixed Use, Light Industrial, Heavy Industrial, Open Space, Sport and Active Recreation, and Natural Open Space zones; and</p> <p>3. A maximum of one public fireworks display on the same site in any 12 month period that does not comply with the above noise limits provided:</p> <ul style="list-style-type: none"> a. all Rural zoned properties within 1,000m of the fireworks are advised in writing at least seven days in advance; and b. the fireworks display finishes before 10.30pm. 	<p>f. the effects on any existing noise sensitive activities; and</p> <p>g. any mitigation proposed, in accordance with the best practicable option approach (e.g. site layout and design, design and location of structures, buildings and equipment and the timing of operation).</p>
NOISE-S3 Noise from temporary military training activities		
All zones	<p>Noise generated from fixed noise sources shall not exceed the following limits at any point within the notional boundary of any noise sensitive activity:</p> <ul style="list-style-type: none"> 1. 7am to 7pm - 50 dB LAeq(15min); 2. 7pm to 10pm – 45 <u>50</u> dB LAeq(15min); 3. 10pm to 7am – 40 <u>45</u> dB LAeq(15min); and 4. 10pm to 7am – 70 <u>75</u>²⁵ dB LAmax. 	<p>Matters of discretion are restricted to:</p> <ul style="list-style-type: none"> a. the level, hours of operation, duration and nature of the noise; b. proximity and nature of nearby activities and the adverse effects they may experience from the noise; c. the existing noise environment; d. effects on character and amenity values on the surrounding environment;

²³ S516.073

²⁴ S516.073

²⁵ S217.020

		<p>e. effects on the health and wellbeing of people; and f. any noise reduction measures.</p>
NOISE-S4 Helicopter landing areas		
<p>All zones</p>	<p>Noise generated from the movements and landing of helicopters shall comply with the following noise limits when measured at any point within any General Residential and Rural Residential zones, or within the notional boundary of any noise sensitive activity in the Rural Production, Rural Lifestyle, Settlement, Horticulture or Māori Purpose zones when assessed in accordance with NZS 6807:1994: Noise Management and Land Use Planning for Helicopter Landing Areas.</p> <p><u>Noise generated from the operation of helicopters complies with the following noise limits when assessed in accordance with NZS 6807:1994: Noise Management and Land Use Planning for Helicopter Landing Areas:</u></p> <ol style="list-style-type: none"> 1. <u>40 dB Ldn when measured at any point within any General Residential, Rural Residential and Māori Purpose-Urban zones, or within the notional boundary of any noise sensitive activity in the Rural Production, Rural Lifestyle, Settlement, Horticulture, Carrington Estate, Kororareka Russell Township, Moturoa Island, Kauri Cliffs, Ngawha Innovation and Enterprise Park, Quail Ridge or Māori Purpose – Rural zones.</u> 2. <u>50 dB Ldn when measured within any Mixed Use Zone, or within any other zone not otherwise listed in NOISE-S4.</u> 3. <u>60 dB Ldn when measured at any point within any Light Industrial zone</u> 4. <u>70 dB Ldn within any Heavy Industrial or Horticultural Processing zone.²⁶</u> <p>Note: Section 4.3 of NZS 6807:1994 shall not apply.</p>	<p>Matters of discretion are restricted to:</p> <p>a. the extent of non-compliance and whether the proposal complies with noise limits of 50 dB Ldn; b. whether there are any restrictions on the number of movements proposed; c. the level, duration and character of the noise; d. proximity and nature of nearby activities and the adverse effects they may experience from the noise; e. effects on character and amenity values on the surrounding environment; f. effects on health and wellbeing of people; g. noise mitigation measures proposed; h. any wider social or community benefits from the operation of helicopters; and i. any potential cumulative effects.</p> <ol style="list-style-type: none"> a. <u>That compliance with a helicopter noise limit of 50 dB Ldn will occur at noise sensitive activities, or that compliance with the guidelines of NZS6807:1994 will be achieved at non-noise sensitive receivers Section 4.3 of NZS 6807:1994 shall not apply</u> b. <u>The potential for cumulative helicopter noise levels to exceed 50 dB Ldn (7 day) at noise sensitive activities.</u> c. <u>Any restrictions on any weekly, monthly or annual helicopter movements proposed.</u> d. <u>Any potential wider social or community benefits from the operation of the helicopter.</u>

²⁶ S516.074 and others

		<p>Note: The restricted discretionary noise rule of 50 dB Ldn is the same as that recommended in NZS6807:1994 as the “limit of acceptability” for rural or residential landuse. The 40 dB Ldn permitted standard is intentionally set at a much lower level. Compliance with the permitted standard will typically have an insignificant effect on amenity.</p>
<p>NOISE-S5 Noise insulation standards for all noise sensitive activities</p>		
<p>All zones within 40m of a State Highway that exceed an average of 15,000 daily one-way vehicle movements²⁷</p>	<ol style="list-style-type: none"> 1. Any habitable room in a new building used for a noise sensitive activity, or an alteration to an existing building that changes its use to a noise sensitive activity, must be designed, constructed, and maintained to achieve a maximum internal noise limit of 40dB LAeq(24h); 2. Compliance with (1) above shall be achieved based on an existing noise level with a 2 3 decibel addition allowing for future traffic increases and design uncertainty;²⁸ 3. Compliance with (1) above shall be achieved if, prior to the construction of any building containing a habitable room, an acoustic design certificate from a suitably qualified acoustic engineer is provided to the Council stating the design will achieve compliance with this standard or <u>the certificate shows that design noise level as determined in accordance with (2) above is less than 55 dB LAeq(24h) for road. The building shall be designed, constructed, and maintained in accordance with the design certificate. The design certificate shall also state the required HVAC design noise levels that are to be included in the ventilation design as well as any relevant assumptions; or</u> 4. Where design external noise levels in (2) above are greater than 55 dB LAeq(24h). Compliance with this clause shall be achieved if, prior to construction of any habitable room, a ventilation and HVAC design certificate is provided by a suitably qualified practitioner. 5. <u>Where design external noise levels in (2) above are greater than 55 dB LAeq(24 h)</u> 	<p>Matters of discretion are restricted to:</p> <ol style="list-style-type: none"> a. effects in the ability of existing or permitted activities to operate or establish without undue constraint; b. any legal instruments proposed; c. mitigation of noise achieved through other means; d. any topographical or other site constraints; e. any alternative solutions proposed by a suitably qualified acoustic engineer to achieve appropriate amenity for present and future residents of the site; f. any existing noise generating activities and the level of noise that will be received within any noise sensitive building; g. the primary purpose and the frequency of use of the activity; and h. the ability to design and construct buildings accommodating noise sensitive activities with sound insulation and/or other mitigation measures to ensure the level of noise received within the building is minimised particularly at night.

²⁷ S356.109

²⁸ S356.110

	<p><u>the habitable rooms of the noise sensitive activity must be designed, constructed and maintained with cooling and mechanical ventilation system(s) that achieves the following requirements:</u></p> <ul style="list-style-type: none"> i. <u>Provides mechanical ventilation to satisfy clause G4 of the New Zealand Building Code; and</u> ii. <u>provides cooling that is controllable by the occupant and can maintain the inside temperature to below 25°C</u> <p>6. <u>Noise levels from ducted ventilation and cooling systems must be designed to within the design sound level range of NZS2107:2016 when measured as a time and space average over the room beyond 1 metre from any diffuser or outlet. If split system air-conditioning systems are used, an HVAC design certificate must confirm these are of good quality, suitable for noise sensitive applications, and include a “low noise” or “quiet” operation mode.²⁹</u></p>	
<p>Mixed Use zone</p> <p>Light Industrial zone</p> <p>Orongo Bay zone</p>	<ol style="list-style-type: none"> 1. Any habitable room in a new building used for a noise sensitive activity, or an alteration to an existing building that changes its use to a noise sensitive activity, must be designed, constructed, and maintained to achieve the following maximum internal noise limit: <ol style="list-style-type: none"> a. Any habitable room used as a bedroom - 30 dB LAeq; and b. Other habitable rooms in residential units, or teaching areas - 40 dB LAeq. 2. The following external noise levels in <u>NOISE-Table 1</u> shall be used in the design and shall be assumed to be incident on the exposed wall facade(s). An assessment from a suitably qualified acoustic engineer may determine noise levels on other building elements based on the surrounding environment using <u>NOISE-Table 1 - Design Noise Level Incident</u>; and 3. Compliance with (1) above shall be achieved if, prior to construction of any building containing habitable rooms used by noise sensitive activities, an acoustic design certificate from a suitable qualified acoustic engineer is provided to the Council stating the design will achieve 	<p>Matters of discretion are restricted to:</p> <ol style="list-style-type: none"> a. effects in the ability of existing or permitted activities to operate or establish without undue constraint; b. any legal instruments proposed; c. mitigation of noise achieved through other means; d. any topographical or other site constraints; and e. any alternative solutions proposed by a suitably qualified acoustic engineer to achieve appropriate amenity for present and future residents of the site.

²⁹ S516.075

³⁰ Clause 16

	<p>compliance with this standard. The design certificate shall also state the required HVAC design noise levels that are to be included in the ventilation design as well as any relevant assumptions.</p> <p>4. <u>The habitable rooms of the noise sensitive activity must be designed, constructed and maintained with cooling and mechanical ventilation system(s) that achieves the following requirements:</u></p> <ul style="list-style-type: none"> i. <u>Provides mechanical ventilation to satisfy clause G4 of the New Zealand Building Code; and</u> ii. <u>provides cooling that is controllable by the occupant and can maintain the inside temperature to below 25°C</u> <p>5. <u>Noise levels from ducted ventilation and cooling systems must be designed to within the design sound level range of NZS2107:2016 when measured as a time and space average over the room beyond 1 metre from any diffuser or outlet. If split system air-conditioning systems are used, an HVAC design certificate must confirm these are of good quality, suitable for noise sensitive applications, and include a “low noise” or “quiet” operation mode.³¹</u></p>	
<p>Outer noise control boundary</p>	<p>1. Any noise sensitive activity with a habitable room in a new building or alteration or addition to an existing building, that is located between the outer control boundary and the air noise boundary shown on the planning maps shall be designed, constructed, and maintained to meet an internal noise level of:</p> <ul style="list-style-type: none"> a. 40 dB L_{dn}. <p>2. Compliance with (1) above shall be achieved if, prior to the construction of any building containing a habitable room, an acoustic design certificate from a suitably qualified acoustic engineer is provided to the Council which certifies that the proposed design and construction of the building, alterations or additions will achieve the internal sound levels. The building shall be designed, constructed, and maintained in accordance with the design certificate; or</p> <p>3. <u>The habitable rooms of the noise sensitive activity must be designed, constructed and</u></p>	<p>Matters of discretion are restricted to:</p> <ul style="list-style-type: none"> a. effects in the ability of existing or permitted activities to operate or establish without undue constraint; b. any legal instruments proposed; c. mitigation of noise achieved through other means; d. any topographical or other site constraints; and e. any alternative solutions proposed by a suitably qualified acoustic engineer to achieve appropriate amenity for present and future residents of the site.

³¹ S516.075

	<p><u>maintained with cooling and mechanical ventilation system(s) that achieves the following requirements:</u></p> <ul style="list-style-type: none"> i. <u>Provides mechanical ventilation to satisfy clause G4 of the New Zealand Building Code; and</u> ii. <u>provides cooling that is controllable by the occupant and can maintain the inside temperature to below 25°C</u> <p>4. <u>Noise levels from ducted ventilation and cooling systems must be designed to within the design sound level range of NZS2107:2016 when measured as a time and space average over the room beyond 1 metre from any diffuser or outlet. If split system air-conditioning systems are used, an HVAC design certificate must confirm these are of good quality, suitable for noise sensitive applications, and include a “low noise” or “quiet” operation mode.³²</u></p> <p>5. <u>Where the noise level specified in (1) above cannot be met with ventilating windows open, a ventilation system shall be installed.</u></p> <p>Note:</p> <ul style="list-style-type: none"> i. <u>For the purpose of this standard, ventilation system means a system complying with the Acceptable Solutions and Verification Methods for New Zealand Building Code Clause G4 Ventilation. This standard will ensure a minimum level of mechanical ventilation with ventilating windows closed.</u> 	
NOISE - S6	Explosives	
All zones	<p>Noise generated from the use of explosives shall comply with noise limits set in NOISE - Table 2 - Explosives, when measured at the specified receiver site in any zone.</p> <p>Notes:</p> <ul style="list-style-type: none"> 1. In assessing the above noise and vibration levels, airblast and ground vibration shall be measured and assessed in accordance with AS2187.2:2006 Explosives — Storage and Use Part 2: Use of Explosives; 2. Noise shall be measured at any point within any Residential, Mixed Use, Natural Open Space or Industrial zone, or within the notional boundary of any noise sensitive activity in the Rural Production, 	Matters of discretion are restricted to: Not applicable

³² S516.075

	Rural Living, Horticulture, Rural Lifestyle, Settlement or Māori Purposes zone; and 3. One blast per annum may exceed the peak airblast sound limits by 5 dB.	
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NOISE-Table 1 - Design noise level incident

Zone					Design noise level dB LAeq--incident			
	63	125	250	500	1	2		dBBA
	Hz	Hz	Hz	Hz	kHz	kHz	kHz	
Mixed Use and Orongo Bay ³³								
Bedrooms	63	57	53	51	51	48	43	55
Other habitable rooms	68	62	58	56	56	53	48	60
Light Industrial								
Bedrooms	56	58	59	59	54	52	50	60
Other habitable rooms	61	63	64	64	59	57	55	65

NOISE- Table 2 - Explosives

Receiver	Permitted blasting time window	Number of blast per year	Peak airblast sound limit dB Lzpeak	Ground Borne Vibration Limit PPV
Occupied noise sensitive activity	0700 to 1900 hours	≤ 20 >20	120 115	10mm/s 5mm/s
Occupied commercial and industrial buildings	All hours	All hours	All 125	25mm/s
Unoccupied buildings	All hours	All hours ³⁴	All 140	AS2187.2:2006 Table J4.5(B) limits

³³ S516.076

³⁴ S516.077