

Airport Noise Community Consultative Group *an update on Auckland Airport's Noise Mitigation Programme*

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9 March 2020



Aircraft Noise Contours and Overlays

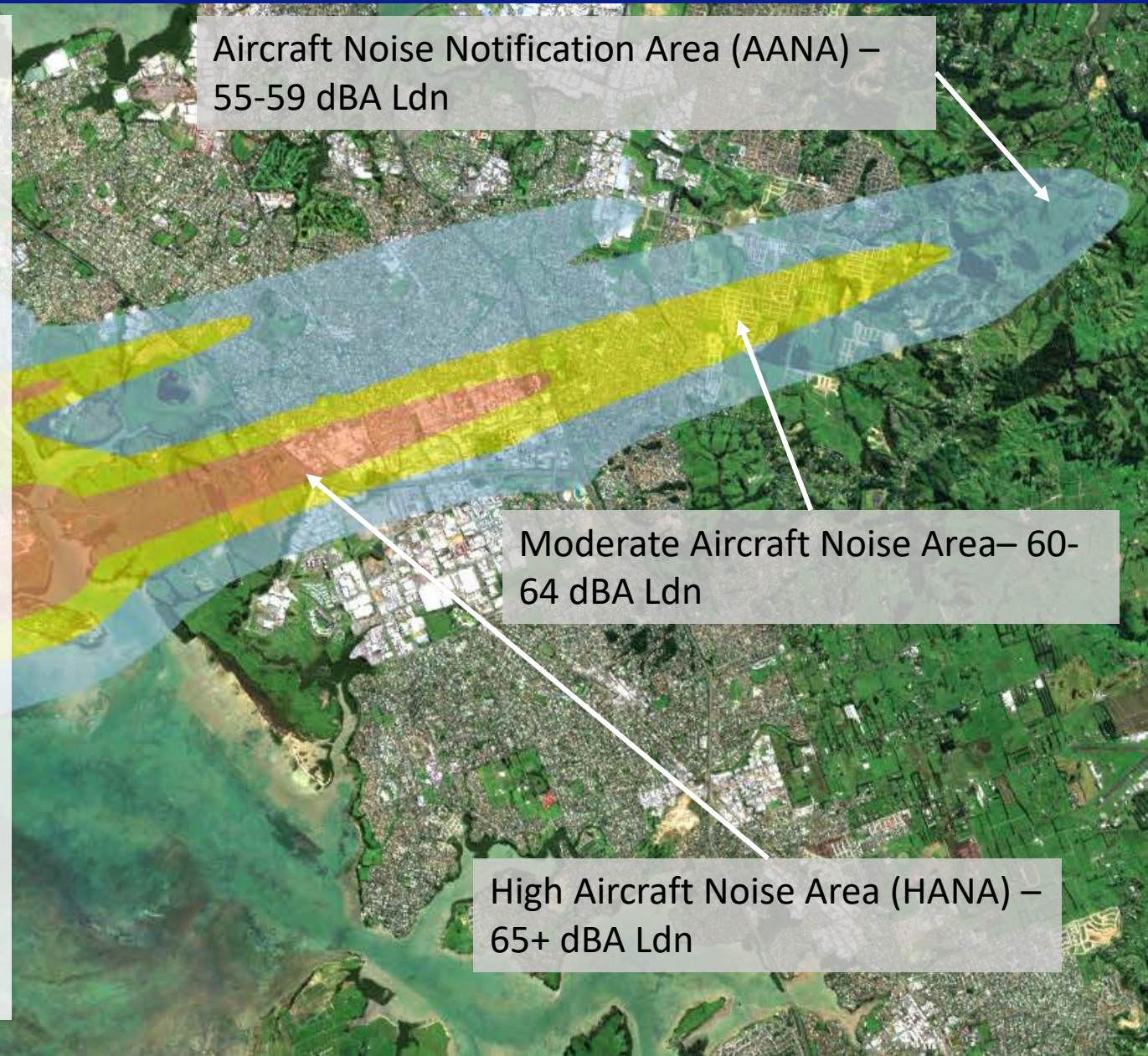
Designation 1100

Noise contours within Designation 1100 **restrict how much** noise Auckland Airport can produce.

- Future Aircraft Noise Contours (FANC) are the maximum level of noise the Airport can generate
- Annual Aircraft Noise Contours (AANC) are the annual prediction of noise for the following 12 months (calculated from October each year) these determine the properties that are eligible for noise mitigation each year

Auckland Unitary Plan Aircraft Noise Overlays

- Overlay in the AUP which **control** activities sensitive to aircraft noise (ASAN) establishing in proximity to Auckland Airport
- New ASAN in the High Aircraft Noise Area (HANA) is Prohibited
- New ASAN in the Moderate Aircraft Noise Area (MANA) is restricted through a 1:400m² density control



Aircraft Noise Notification Area (AANA) –
55-59 dBA Ldn

Moderate Aircraft Noise Area – 60-
64 dBA Ldn

High Aircraft Noise Area (HANA) –
65+ dBA Ldn

The Noise Mitigation Programme

What is it?

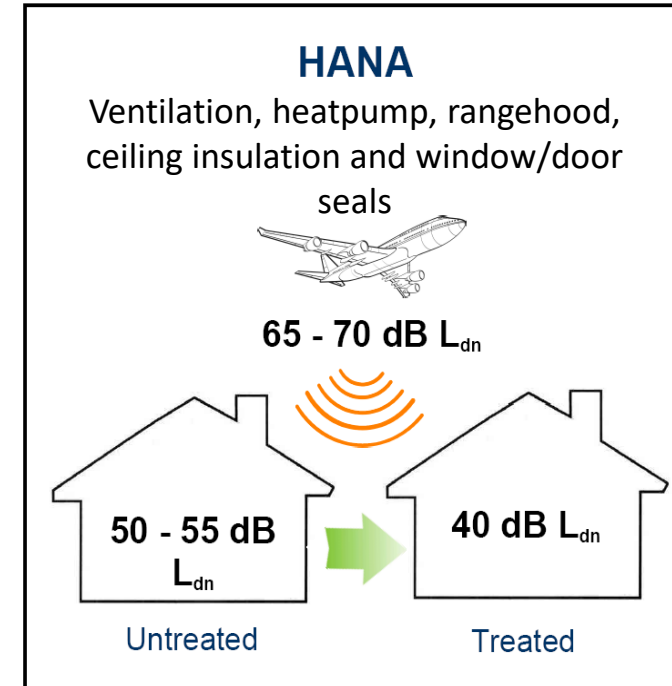
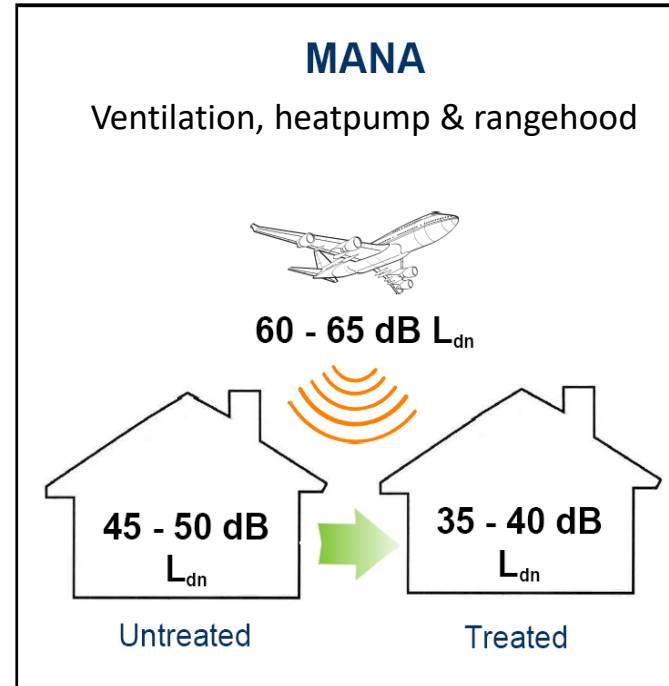
- Auckland Airport offers and installs acoustic attenuation to existing residential properties and educational facilities within the aircraft noise contours.
- Offers are made on an annual basis as aircraft noise reaches properties within the aircraft noise contours. This is determined by the actual aircraft noise contours.

What does it achieve?

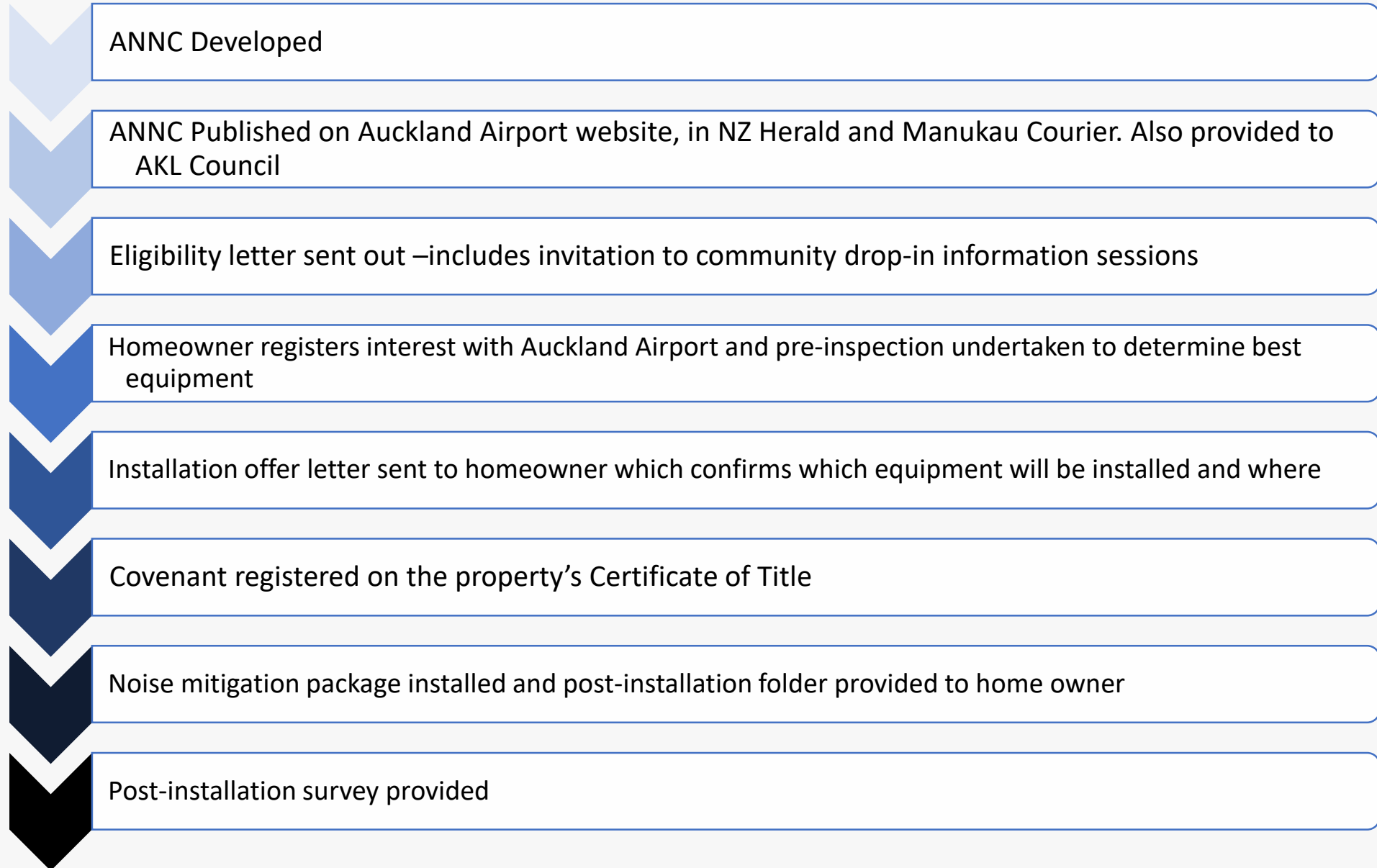
- Mitigation packages achieve an internal noise environment of 40 dBA L_{dn} or less with all windows and doors closed.

What is the cost to homeowners?

- HANA – 100% paid for by Auckland Airport
- MANA – 75% paid for by Auckland Airport / 25% paid for by the homeowner.
- Auckland Airport Community Trust provides assistance to homeowners unable to contribute the remaining 25%

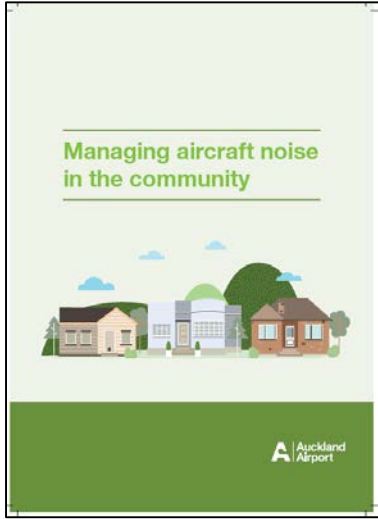


The NMP Process



Key Collateral

NMP Brochure



Survey

Auckland Airport Noise Mitigation Programme Feedback Form

Auckland Airport would appreciate your feedback on the Noise Mitigation Programme. By filling in this form you have read and agree to the Terms and Conditions attached.

- Name:
- Are you a tenant or homeowner? Please circle: TENANT | HOMEOWNER
- Property Address:
- What do you think about the application process to get a noise mitigation package from Auckland Airport? (Please Tick)

Difficult	It was a bit difficult	Neutral	It was easy	It was great
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- Please explain your rating:
- How did you hear about the Noise Mitigation Programme?

I received a letter

I saw it online

Someone told me about it

Other (please specify):

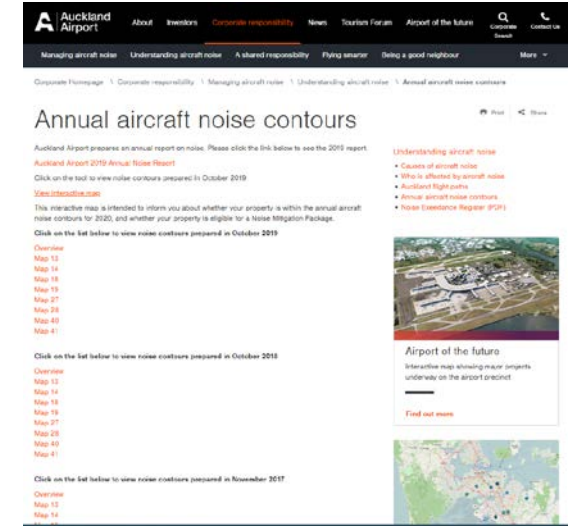
Warranty & Maintenance Information

Product	Warranty	Cleaning and Maintenance	More info and Indicative Costings
Mitsubishi Electric Heat Pump	3 years - parts and labour	Per year filter (check and clean). The weather annual service check. Filters should be checked for dust and dirt build up and cleaned regularly if required, particularly during noisier months.	http://www.mitsubishi-europe.com/industrial-warranty-service.pdf Full annual service of the heat pump indoor and outdoor unit \$338 inc GST
Subsidiary Rangehoods	3 years - rangehood parts and labour Roof flashing and installation - 10 years	Remove filters regularly and wash with soap water (or dishwasher). Equipment symbols are available from specialist lighting retailers.	www.rangehood.co.nz
Homelatch EBS Whole Home Ventilations System	3 years - mechanical parts 10 years - roof flashing and installation	Clean the pre filters once a year Clean heat recovery core once a year	www.homelatch.co.nz Full annual service, replacement of pre filters, cleaning of heat exchanger core \$224 inc GST
ACCION AIR Positive Pressure Ventilation System	3 years - mechanical parts 10 years - roof flashing and installation	Filter to be cleaned or replaced.	www.homelatch.co.nz Annual service includes replacement of inline filter \$149 inc GST

To ensure your Heat Pump, Rangehood and Ventilation System are in optimum condition, it is a warranty requirement to have these serviced and maintained as per the manufacturer's recommendations above.

To book a maintenance appointment, please call 0800 462 462.

Airport Website



Covenant Fact Sheet



Compliance Testing

CONSULTANT ADVICE MARSHALL DAY Acoustics

Project: Auckland Airport Noise Mitigation Verification Document Ref: CA 002

To: Auckland International Airport Ltd. Date: 29 September 2019

Attention: Mr Matthew Dugmore Cross Reference: 20181112

Delivery: Matthew.Dugmore@aucklandairport.co.nz Project No.: 20181112

From: Laurel Smith No. Pages: 2 Attachments: No

EC:

Subject: 2/37 Te Irirangi Drive Verification Measurements

INTRODUCTION
Auckland International Airport Limited (AIAL) has engaged Marshall Day Acoustics (MDA) to measure the sound insulation performance from aircraft at the below address since treatment was installed under the Airport's Noise Mitigation Programme:

Address: 2/37 Te Irirangi Drive, Clover Park, Auckland 2013

Aircraft Noise Area: Moderate (MANA)

Future Aircraft Noise Level: 64 - 65 dB L_A

DWELLING DESCRIPTION
The property is a single level duplex with three bedrooms and an open plan living/dining room. We observed the following construction materials during the verification measurements on Thursday 1 August 2019:

Roofing/Ceiling: Finished roof with ground metal tile roofing. Fibreglass batts ceiling insulation. Flat ceiling of plasterboard (joistboard in bedroom 3)

Walls: Fibre cement weatherboard on timber framing and plasterboard internal brags.

Joinery: Aluminium joinery with 6.5mm single glazing. Latches and seals generally in good condition.

TREATMENT DESCRIPTION
This property is inside the MANA and therefore the noise mitigation treatment included a ventilation system for habitable rooms and a heat pump in the main living space. The existing ducted range hood was not replaced at the owner's request.

The Noise Mitigation Programme does not define a sound insulation performance standard for houses in the MANA. Houses in the high Airport Noise Area (MANA) have a design criterion of 42 dB L_A in habitable rooms in both the MANA and the MANA, ventilation systems are subject to noise performance standards.

MEASUREMENT RESULTS
We carried out measurements of aircraft flyovers simultaneously indoors and outdoors with doors and windows closed to determine the sound insulation performance of the house. We measured on Thursday 1 August between 9:00am and 11:00am, capturing six flyovers and four jet aircraft arrival flyovers.

Post Installation Folder



Translated Documents

DATE

INSERT ADDRESS DETAILS
INSERT ADDRESS DETAILS
INSERT ADDRESS DETAILS

建议书号码: 10682

尊敬的 (INSERT NAME)

全屋降噪静音改造建议书
地址: (INSERT ADDRESS)

新西兰机场境内提供机会, 减少飞机噪音对您房屋内部的影响。

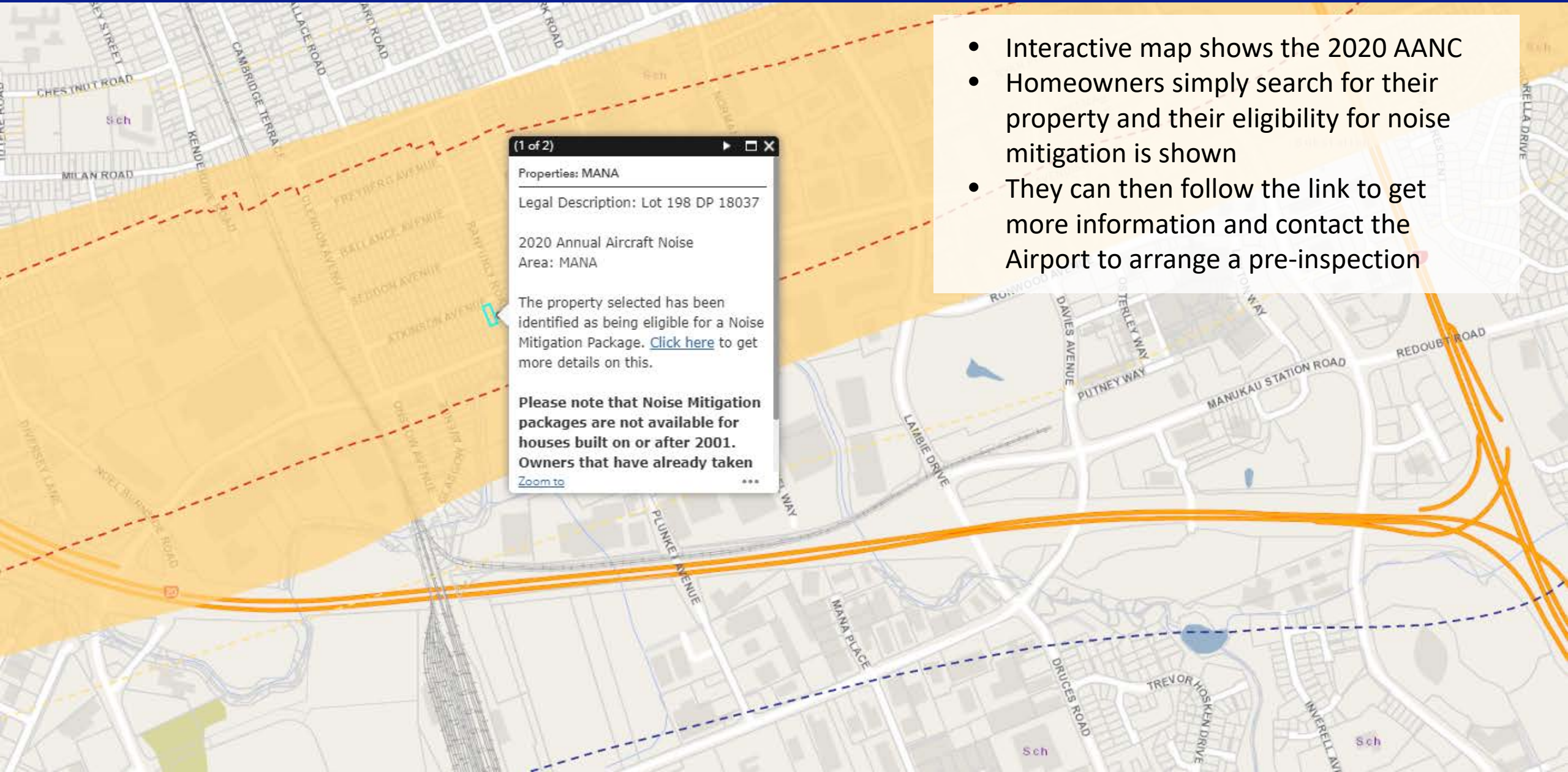
该种条件的目的, 是告知: 您的房屋符合条件, 可以执行全屋降噪静音改造, 费用 100% 机场承担。原因是: 您的房屋建于 2001 年 12 月 10 日之前, 而且位于“机场噪声敏感区域”以及“65 dB L_A 噪声”飞机噪声敏感区内。这意味着, 您的房屋符合在“噪声敏感区”飞机噪声之下。

新西兰机场启动了这个全屋降噪静音改造项目, 其中包括: 天花板降噪; 一套将新鲜空气送入室内的通风系统; 一个散热器, 具有制热或制冷功能; 一个厨房排气扇, 用于去除烹饪散发的油烟。安装完成后, 可以让您室内空气质量更佳, 还能保持更安静。

如果您想接受这个提议, 新西兰机场需要安装前, 为您的房屋进行一次检查, 确定适合的降噪静音改造方案, 以及改造方式。检查完成后, 我们会为您提供一份正式的建议书, 包括安装改造的细节, 以及建议书的全部相关条款条件。

如果您选择接受这个提议, 您需要跟新西兰机场签订一份协议, 针对您的房屋订立一个相关改造计划, 确认全屋降噪静音改造, 并承担新西兰机场费用, 不得有损。我们建议您针对此文件, 寻求相关法律建议。新西兰机场会为此支付合理的补偿, 额度为 \$250。该补偿金额将上了一份小册子, 提供关于安装过程, 以及如何处理异议的建议和相关信息。

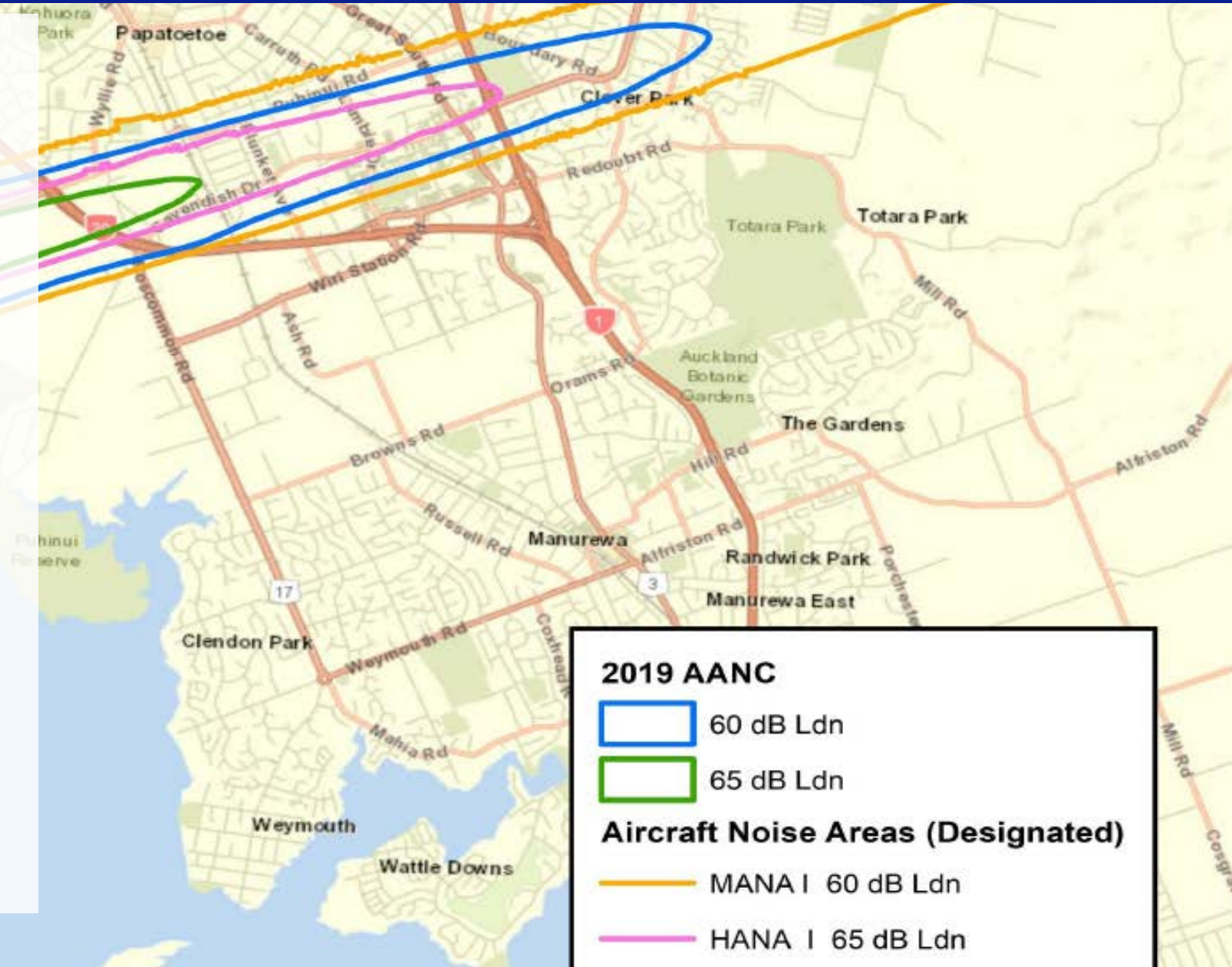
Interactive Map



- Interactive map shows the 2020 AANC
- Homeowners simply search for their property and their eligibility for noise mitigation is shown
- They can then follow the link to get more information and contact the Airport to arrange a pre-inspection

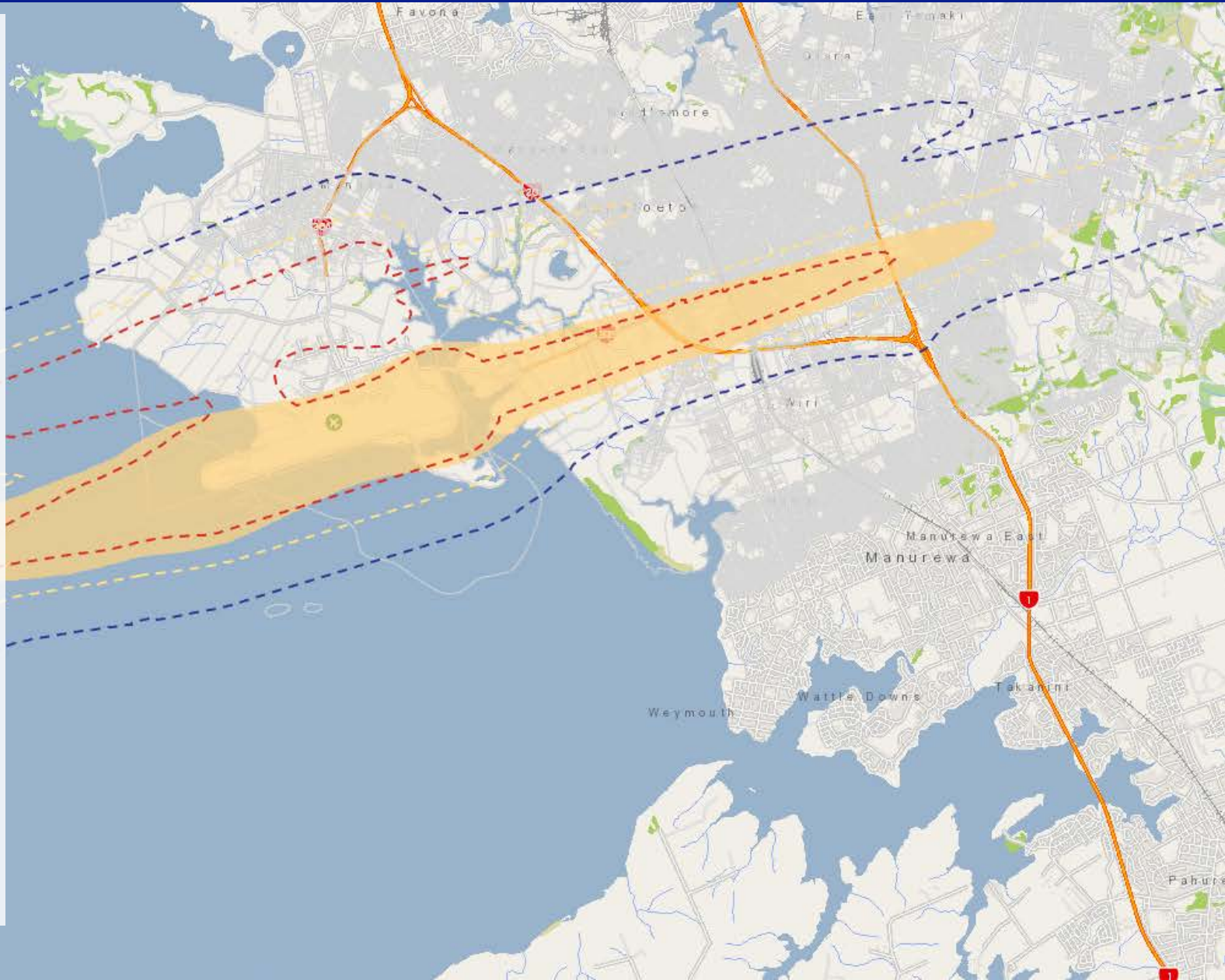
2019 Noise Mitigation Programme

- 987 eligible properties in 2019
 - 176 HANA
 - 666 MANA
- Community drop-in sessions held on 9, 10 and 11 March 2019 at Kolmar Sports Complex
- 60 Installs undertaken in 2019
 - 27 HANA
 - 33 MANA
- Auckland Airport Community Trust provided funds for 9 MANA properties
- Noise measuring completed at two properties to confirm packages are meeting internal noise standards
- 49 responses to post-install feedback survey
 - 81% would recommend having a noise mitigation package installed



2020 Noise Mitigation Programme

- 842 eligible properties in 2020
 - 176 HANA
 - 666 MANA
- Contours published on Auckland Airport website (static and interactive tool) on 14 October
- Public notice in newspapers on 18 October 2019
- Offer letters sent out 2 March 2020
- Community drop-in sessions – 5pm – 7pm on 10 and 12 March 2020 at Kolmar Sports Complex, Papatoetoe
- Representatives from Auckland Airport, Hometech, Marshall Day Acoustics, BT Law, and the Auckland Airport Community Trust will be at the drop-in sessions
- Dedicated staff at Auckland Airport to respond to queries on noise mitigation programme



Questions?

