

## **Appendix to Noise Impact Assessment by Venta Acoustics (VA3059)**

### **Further modelling as at 31<sup>st</sup> January 2020**

#### **1. Link to main report**

ECLT provided Venta with a draft layout from Quattro as a “first cut” to run against the baseline model of 15<sup>th</sup> January 2020.

Both new model results should be compared to the plan VA3059/NM1 “Daytime Site Noise Levels” (appended)

#### **2. Assumptions brought forward**

In the main report, Section 6 suggests a bund with a timber fence with combined height of 4 metres. This is similar to Puddleworth Close but half a metre higher.

Additionally, fences of 2 metres on the northern and southern boundaries are proposed.

The Quattro draft layout is appended.

#### **3. First re-modelling labelled “Proposed Layout”**

Using the assumptions in 3 above, it can be seen that noise levels in the middle of the plot are reduced by 10dB, roughly from 60 to 65 dB (dark pink areas) to 50-55 dB (yellow areas).

Unfortunately, in the gardens on the west and south west, noise is still above 60dB, whilst the target is 55dB or below.

Because of the long-and-thin nature of the plot, about half the gardens are closer to 55dB and the gardens to the east are completely within limits.

#### **4. Second re-modelling labelled “example gardens internal”**

There is an additional assumption here, based on Mitigation 6.2 and 6.3, whereby Venta have sketched house locations 180 degrees around such that buildings face the roads and gardens are shielded.

The result is that more patches of yellow appear, indicating reading in rear gardens below the desired 55dB level.

This is encouraging, however the resulting layout is not ideal aesthetically, so it can only be a guide to our architects – a hint at what might be possible.

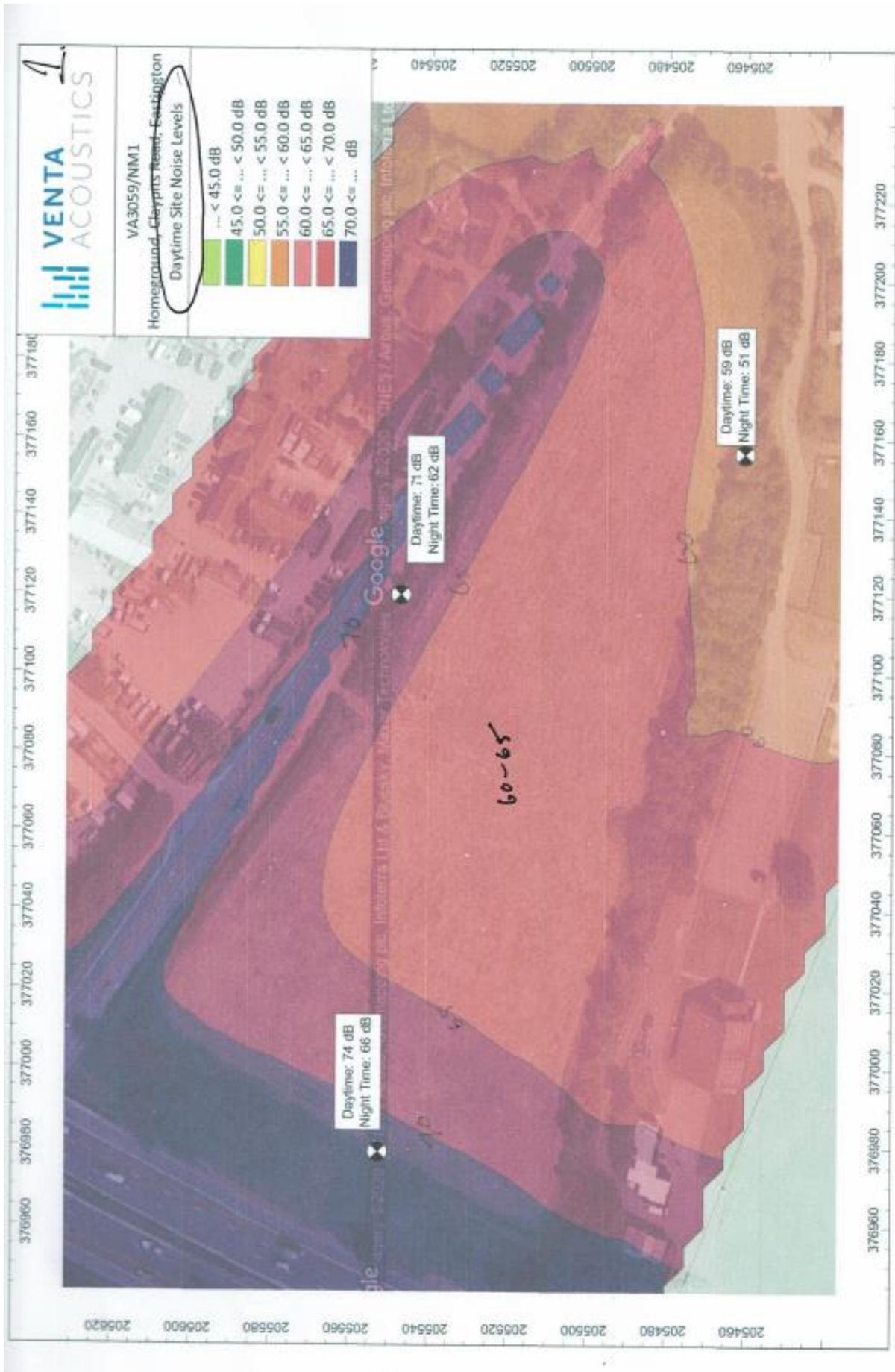
#### **5. Next steps**

Before doing any more acoustic modelling, ECLT and Quattro need to discuss some practical and attractive layouts.

The Venta report and the data it contains appear good enough for Pre-App meetings with Stroud DC Planners and EHO's. It is also likely to be sufficient to support the Feasibility Report, in that it seems as though the risks are within manageable bounds.

**Tom Low, ECLT Secretary, January 2020**

# Daytime Site Noise Levels - unmitigated





# Our Vision for Homeground



ADDRESS  
385-8288-100

ADDRESS TITLE  
Residential Site Layout

DATE  
08/20/19

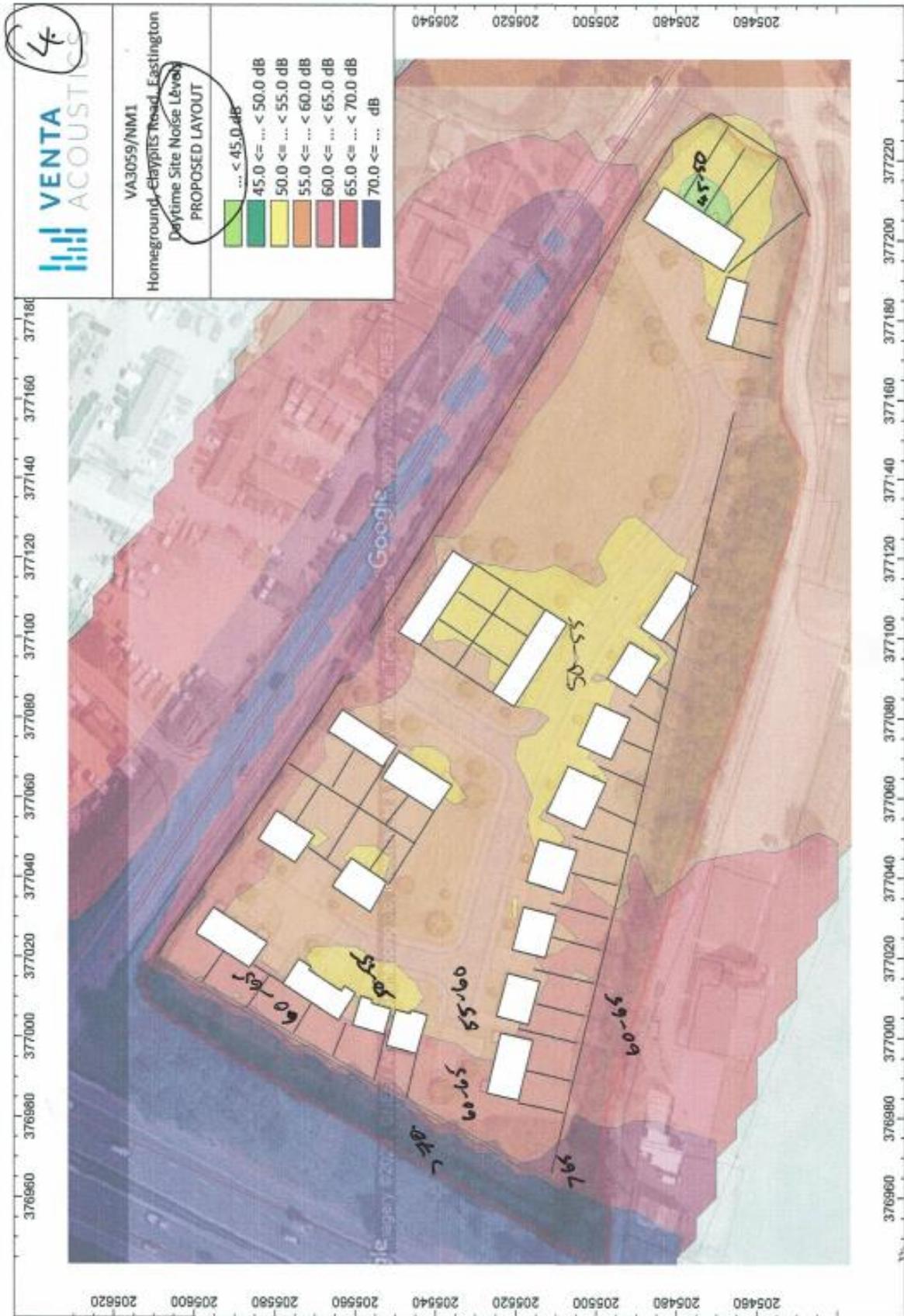
PROJECT  
Residential CTR

SCALE  
1/8" = 1'-0"

DATE  
12/11/19

PROJECT  
Residential CTR

# First Re-modelling - Proposed Layout



## Second re-modelling – Example Gardens Internal

