Ref: MDR/J3449a

28th November 2017

Amelio Homes Ltd

9 Commerce Road

Lynchwood

Peterborough

PE2 6LR

For the attention of Ms N L Darrington

Dear Sirs

Re: 10 Peterborough Road, Crowland, Peterborough - Proposed Residential Development – Driveway Noise Issue

Further to your recent instruction an assessment was undertaken of the possible noise impact of the proposed driveway to service the dwellings to be built on land to the rear of No.10 Peterborough Road.

South Holland District Council planning refusal notice dated 11/9/17, ref. H02-0536-17, cites the noise impact of pedestrians and vehicles using the proposed driveway on the residents of No.10 and No.8a.

The proposed driveway to the rear garden site for the dwellings would run between the side of the two storey detached house (No.10) and the 2m high closed board timber boundary fence with the adjacent property (No.8a). It should be noted that on the other side of the boundary fence is a driveway for the double garage located halfway down the rear garden of No.8a; the driveway runs in front of various windows on two storeys located on the side of No.8. During our site visit we noted two Land Rover 4x4 vehicles parked on the driveway of No.8a.

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We attended site on 22/11/17 at 14.00hrs to measure the typical daytime background noise level at the proposed driveway location adjacent to the boundary fence between No.8a and No.10. In satisfactory weather conditions, standing at the site boundary fence just to the rear No.10 we measured the typical background noise, without any vehicle or pedestrian noise contributions from No.8a or No.10; the levels recorded over a 1 hour period were as follows:-

- 54.1dB L_{Aeq}
- 68.1dB L_{Amax}
- 47.7dB L_{Amin}
- 50.0dB L_{A90}

The instrumentation used for the survey was a Rion NL-52 precision grade real time analysing sound level meter, serial number 01143558, calibration checked before and after the survey and seen to be correctly calibrated. For your reference please see the attached current instrument certification.

For your reference we attach a copy of the SHDC refusal notice and various site plans and views.

The daytime background noise measured on site was controlled by the constant road traffic noise from the A16 approximately 450m away, with contributions from the light road traffic passing on Peterborough Road. The four measured levels reflect the typical fairly constant level of background noise, with the L_{Amax} level created by a passing vehicle on Peterborough Road.

From our site visit and background noise measurement we would make the following observations:-

- The typical daytime background noise level would mean that any slow controlled vehicle movement or pedestrian use of the proposed driveway would have minimal impact on the average noise level, $L_{Aeq\ T}$, experienced by the occupants of No.8a and No.10, whether measured within the houses or outside in the amenity areas of No.8a or No.10. The measured background level at the boundary fence was 54.1dB $L_{Aeq\ 1hr}$ is significantly noisier than a normal specification of road car at "driveway" speed or a pedestrian walking.

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- BS8233:2014 and WHO guidelines for background noise in external amenity areas advises a level of 50dB $L_{Aeq\ T}$ with an upper limit of 55dB $L_{Aeq\ t}$. This location with its constant road traffic noise from the A16 appears to be just compliant with the BS8233:2014 and WHO guidelines.

- The location of the driveway and double garage just the other side of the boundary fence at No.8a, has to be comparable with the proposed driveway access to the proposed dwellings that is the subject of the SHDC refusal. On the driveway of No.8a were two Land Rover 4x4 vehicles which are likely to be noisier in operation than a normal road car and these obviously are driven up and down the driveway to and from the double garage located halfway down the rear garden.

Conclusion

The prevailing background noise at the site strongly suggests that the "frequency of noise and disturbance from passing vehicles and pedestrians" using the proposed driveway would have minimal impact on the perceived $L_{Aeq\ t}$ of the occupiers of either No.8a or No.10. The environmental noise for occupants of all the dwellings in the locality is dominated by road traffic noise. There is no objective basis for the SHDC refusal on the grounds of noise impact, a measurement of the typical environmental noise at the location by SHDC would have revealed this fact.

An inspection of the site reveals that there is a very comparable driveway, running alongside the boundary fence, leading to a double garage located halfway down the rear garden at No.8a, which appears to be used by two Land Rover 4x4 vehicles; this driveway and its use would indicate a stark inconsistency in SHDCs approach to assessing the impact of each driveway.

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We trust our report meets with your satisfaction, however should you have any queries please do not hesitate to contact us. Assuring you of our close co-operation at all times, we remain.

Yours faithfully



M D Randall BSc(Eng) CEng MCIBSE MIOA

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CERTIFICATE OF CALIBRATION

0653

Date of Issue: 14 March 2017 **Certificate Number: UCRT17/1133**

Issued by:
ANV Measurement Systems
Beaufort Court
17 Roebuck Way
Milton Keynes MK5 8HL
Telephone 01908 642846 Fax 01908 642814
E-Mail: info@noise-and-vibration.co.uk
Web: www.noise-and-vibration.co.uk
Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Approved Signatory

K. Mistry

Customer	ANV Measurement Systems Beaufort Court 17 Roebuck Way Milton Keynes MK5 8HL			
Order No.	ANV MS Hire			
Description	Sound Level Meter / Pre-amp / Microphone / Associated Calibrator			
Identification	*Manufacturer*	*Instrument*	*Type*	*Serial No. / Version*
	Rion	Sound Level Meter	NL-52	01143558
	Rion	Firmware		1.8
	Rion	Pre Amplifier	NH-25	43575
	Rion	Microphone	UC-59	07367
	Rion	Calibrator	NC-74	34536109
		Calibrator adaptor type if applicable		NC-74-002
Performance Class	1			
Test Procedure	TP 2.SLM 61672-3 TPS-49 *Procedures from IEC 61672-3:2006 were used to perform the periodic tests.*			
Type Approved to IEC 61672-1:2002	YES	Approval Number	21.21 / 13.02	
	If YES above there is public evidence that the SLM has successfully completed the applicable pattern evaluation tests of IEC 61672-2:2003			
Date Received	07 March 2017	ANV Job No.	UKAS17/03080	
Date Calibrated	14 March 2017			

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2003, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2002.

Previous Certificate	*Dated*	*Certificate No.*	*Laboratory*
	21 April 2016	UCRT16/1142	7623

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0653	**Certificate Number** UCRT17/1133
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Sound Level Meter Instruction manual and data used to adjust the sound levels indicated.

SLM instruction manual title	Sound Level Meter NL-42 / NL-52		
SLM instruction manual ref / issue	11-03		
SLM instruction manual source	Manufacturer		
Internet download date if applicable	N/A		
Case corrections available	Yes		
Uncertainties of case corrections	Yes		
Source of case data	Manufacturer		
Wind screen corrections available	Yes		
Uncertainties of wind screen corrections	Yes		
Source of wind screen data	Manufacturer		
Mic pressure to free field corrections	Yes		
Uncertainties of Mic to F.F. corrections	Yes		
Source of Mic to F.F. corrections	Manufacturer		
Total expanded uncertainties within the requirements of IEC 61672-1:2002	Yes		
Specified or equivalent Calibrator	Specified		
Customer or Lab Calibrator	Lab Calibrator		
Calibrator adaptor type if applicable	NC-74-002		
Calibrator cal. date	10 March 2017		
Calibrator cert. number	UCRT17/1123		
Calibrator cal cert issued by	0653		
Calibrator SPL @ STP	94.03	dB	Calibration reference sound pressure level
Calibrator frequency	1001.87	Hz	Calibration check frequency
Reference level range	25 - 130	dB	

Accessories used or corrected for during calibration - Extension Cable & Wind Shield WS-15
Note - if a pre-amp extension cable is listed then it was used between the SLM and the pre-amp.

Environmental conditions during tests	Start	End		
Temperature	21.44	21.78	± 0.20	°C
Humidity	33.8	36.8	± 3.00	%RH
Ambient Pressure	101.06	101.13	± 0.03	kPa

Response to associated Calibrator at the environmental conditions above.

Initial indicated level	94.2	dB	Adjusted indicated level	94.0	dB
The uncertainty of the associated calibrator supplied with the sound level meter ±				0.10	dB

Self Generated Noise — This test is currently not performed by this Lab.

Microphone installed (if requested by customer) = Less Than	N/A	dB	A Weighting
Uncertainty of the microphone installed self generated noise ±	N/A	dB	

Microphone replaced with electrical input device - UR = Under Range indicated

Weighting	A			C			Z		
	11.9	dB	UR	15.9	dB	UR	21.7	dB	UR
Uncertainty of the electrical self generated noise ±							0.12	dB	

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

For the test of the frequency weightings as per paragraph 12. of IEC 61672-3:2006 the actual microphone free field response was used.

The acoustical frequency tests of a frequency weighting as per paragraph 11 of IEC 61672-3:2006 were carried out using an electrostatic actuator.

..... END .....

Calibrated by: A Patel R 1

Additional Comments
None

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SOUTH HOLLAND DISTRICT COUNCIL

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Spalding
Lincolnshire
PE11 2XE
Admin 01775 764723
DC Officers 01775 764703
facsimile 01775 762937
planningadvice@sholland.gov.uk
www.sholland.gov.uk

TOWN AND COUNTRY PLANNING ACT 1990
OUTLINE

Reference:	H02-0536-17	**Date of Decision:**	11th September 2017
Applicant:	Amelio Homes Ltd C/O Colin Smith Down Ampney Well Hill Yaxham Dereham Norfolk NR19 1RX		
Location:	10 Peterborough Road Crowland Peterborough		
Description:	Residential development - two detached houses		

South Holland District Council hereby give notice that this application has been REFUSED for the above proposal for the following reason(s):

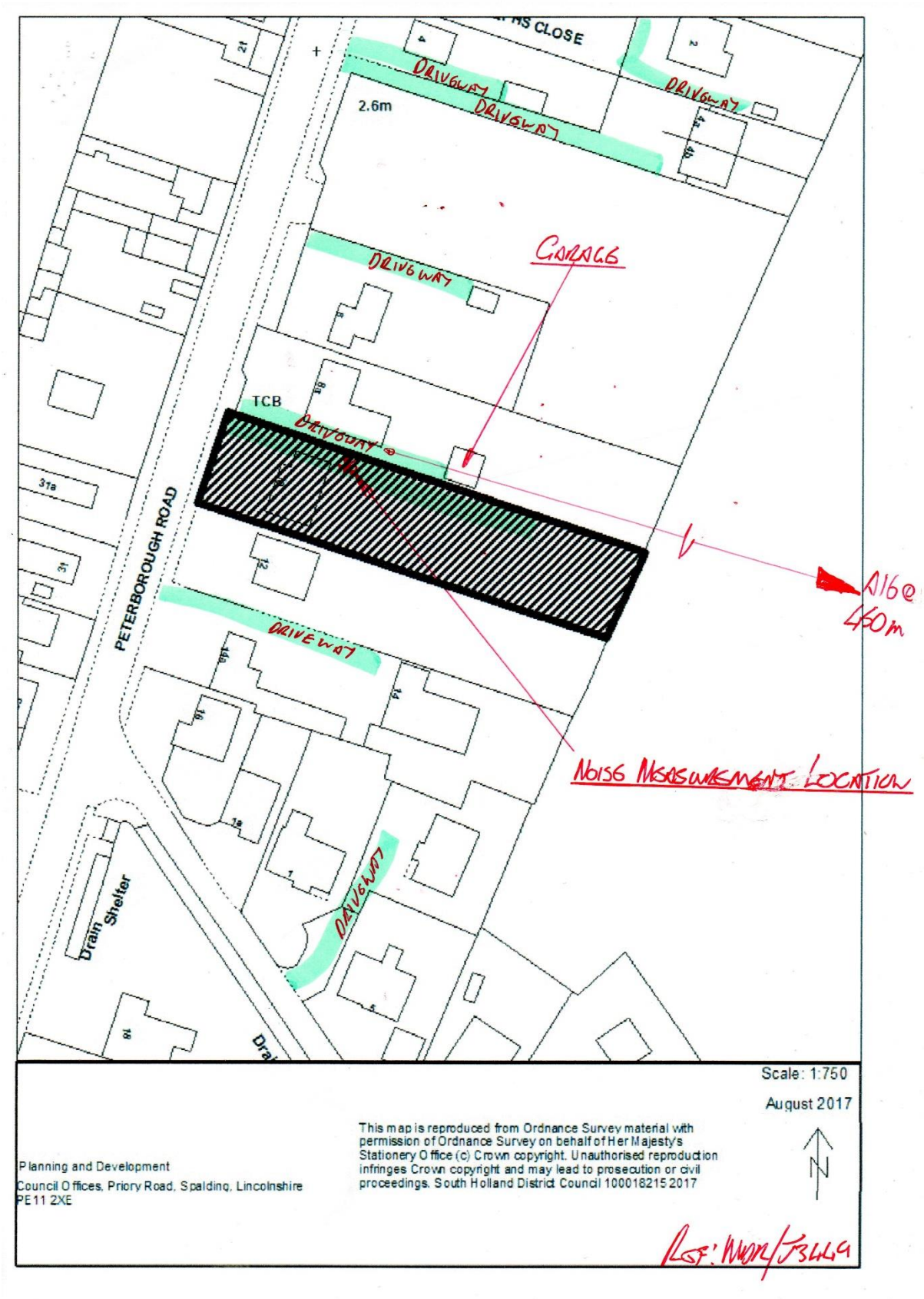
1 The proposal would represent an unacceptable form of development with the proposal having a harmful effect upon the amenity of occupiers of nearby dwellings, in particular Nos 10 and 8a Peterborough Road, by virtue of the frequency of noise and disturbance from passing vehicles and pedestrians.

As such the proposal is contrary to the clear aims and objectives of Policies HS4, SG14 and SG17 of the South Holland Local Plan 2006, which state that permission will not be granted for development which has an adverse impact on the character and appearance of an area and the amenity of nearby residents. These policies are in accordance with national guidance set out in Section 7 and of the National Planning Policy Framework, 2012, and to the principle that new development should make a positive contribution to local character and distinctiveness enshrined therein.

Notes:

DC_FINAL_DECISION - ODB14

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Ref: MDR/J3469

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