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REPORT No. 340339/1A

Chilli Cool Restaurant
15-16 Leigh Street
London
WC1H 9EW

ENVIRONMENTAL NOISE SURVEY
AND
PLANT NOISE ASSESSMENT REPORT

PREPARED: 20TH June 2014

Presented By: Martyn Ayling BSc

CONTENTS

1.0 Introduction

1.1 A new kitchen extract fan has been installed at the premises of The Chilly Cool Restaurant, 15-16 Leigh Street, London. The fan is located at the rear of the premises and has been housed within a purpose made plantroom constructed from heavy duty plywood. An in-line duct attenuator has been fitted within the extract ductwork. The fan operates during Restaurant opening hours only which is from 12.00hrs until 22:30hrs.

1.2 Noico Ltd has consequently been commissioned to conduct an environmental noise survey at the site. The purpose of the survey is to obtain statistical noise data and to determine the background noise levels at the site. Based on the noise survey data, noise criteria are to be established for limiting noise emission from the mechanical plant installations serving the premises. The noise criteria are to be set in accordance with the requirements of the local planning authority (London Borough of Camden).

1.3 Following completion of the survey, a detailed noise assessment is to be carried out to establish whether the plant meets the planning noise requirements or whether further noise control measures are be required.

2.0 Instrumentation

2.1 A precision grade Norsonic 118 'Type 1' Integrating Sound Level Meter was used for the survey. This was equipped with an environmental microphone and extension cable. The instrument was powered by an external battery and stored in a weatherproof case.

2.2 The instrument was calibrated prior and subsequent to use with no calibration drift recorded.

3.0 Survey Details

3.1 Location: The environmental noise analyser microphone was located externally at ground level in the rear garden of the premises, close to the boundary with the neighbouring property at 17 Leigh Street. This position was chosen as it was considered to be representative of the background noise environment that exists at the nearest noise affected properties, i.e. the neighbouring properties (No's 14 & 17 Leigh Street) either side of the development site. The nearest windows to the rear of these buildings are approximately 3 metres from the measurement location, and approximately 5 metres from the location of the new kitchen extract fan.

3.2 Period: Monitoring was carried out continuously from approximately 11:15 hrs on the 1st April 2014 through to 13:30 hrs on the 3rd April 2014. The instrument was set up to monitor noise levels continuously and store data in ten-minute intervals.

3.3 Weather: The prevailing weather condition throughout the majority of the survey period was satisfactory for noise monitoring, being dry, mild and with little to moderate breeze. Wind speed, although not recorded, was considered to be less than 5 m/s throughout the survey period.

3.4 Site Noise Characteristics: The ambient noise level was characterised by road traffic in the local area, but in particular from Leigh Road itself. Additionally, noise from existing mechanical plant serving the restaurant premises is also likely to be contributing to the ambient noise level in the area. Other than intermittent aircraft noise, it is thought that no unusual events occurred during the survey period and the data are considered to be a true representation of ambient noise levels.

4.0 Survey Results

4.1 The results of the environmental survey are presented in graphical and numerical format in the attached appendices, showing the recorded values of L_{Aeq} and L_{A90}.

4.2 See Appendix 1 for a glossary of terms.

4.3 With reference to the measured data, the minimum background noise level measured during the survey period was:

Daytime (07:00 to 23:00hrs)	- 49.2 L_{A90}
Night time (23:00 to 07:00hrs)	- 48.6 L_{A90}

5.0 Environmental Noise Level Criteria

5.1 Criteria for mechanical services noise emission are normally based upon the prevailing level of background noise in the period of concern and may be set against this to a level as normally defined by the local planning authority.

5.2 The London Borough of Camden Council has advised that noise arising from fixed plant installations shall be 5dBA below the existing minimum background noise level (as expressed as a L_{A90}) at 1 metre from the façade of the nearest adjacent residential window, or at 1.2m above any adjacent residential garden, terrace, balcony or patio.

5.3 To conform to the above criteria, and in accordance with the minimum background noise levels measured during the survey (detailed summarised in 4.3 above), noise from the proposed plant installations should not exceed the following value. Note, these have been rounded to the nearest whole number

Daytime plant operation (07:00 to 23:00hrs)	- 44.2dB L_{Aeq}
24 hour plant operation	- 43.6dB L_{Aeq}

Note: These levels must be achieved cumulatively with all plant operating.

6.0 Plant noise assessment

6.1 Project data

6.1.1 Plant location and details

The new kitchen extract fan is a Flakt Woods model 40JM2/16/4/5/37-30 long cased axial flow fan. It is located at the rear of the premises and is housed within a purpose made plantroom constructed from heavy duty plywood. An in-line duct attenuator has been fitted within the extract ductwork. The fan operates during Restaurant opening hours only which is from 12.00hrs until 22:30hrs. The noise data provided by the fan manufacturer is detailed as follows:

	Mid octave band frequencies (Hz)						
	63	125	250	500	1K	2K	4K
Fan sound power level	74	72	70	69	64	61	57

Fan casing breakout – 49dBA at 3 metres

6.1.2 Noise Sensitive Receptors

The nearest noise sensitive receptors are the neighbouring properties at 14 and 17 Leigh Street. These properties contain commercial/retail at ground floor level with residential flats above. The nearest windows are approximately 6 metres from the fan plantroom housing.

6.2 Noise assessment by calculation

Based upon the fan noise data and plant location, we calculate the resultant noise level at the nearest noise affected windows to be as follows:

Fan breakout at 3 metres	49dBA
Attenuation due to distance to nearest window - 5m	-4dBA
Sound reduction performance of plywood plant enclosure	-8dBA (estimated)
Directivity correction	+6dB
Resultant level at window	43dBA
Design criteria	44.2dBA
Margin of safety	1.2dBA

Notes:

a) Distance correction has been estimated using the standard conformal area method for box sources.

b) A correction factor of +6dB has been made for non-free field conditions which exist at the plant location due to the reflective surfaces from the adjacent building structure etc.

c) A nominal allowance of 8dBA has been allowed for the noise reduction of the plywood enclosure. The actual performance of the enclosure is impossible to calculate, however the quality of the construction is good. This level of reduction may be considered to be pessimistic; however it allows the assessment to be robust.

6.3 Noise assessment by measurement

During the visit it was not possible to switch off the extract fan as the kitchen was fully operational. However it was confirmed that the fan switches on every day at 11:00 hrs and switches off at 22:30 hours. From the results it can be seen that immediately after the fan switches off at 22:30hrs the background noise level drops by approximately 1dBA (i.e. from 50dBA to 49dBA). This suggests the underlying fan noise to be approximately 4dBA lower than the background noise at 45dBA, i.e. fan noise (45dBA) plus background noise (49dBA) = 50dBA. As the sound level measurements were taken at 3 metres from the fan enclosure, the noise transmission at the nearest windows will decay by a further 4dBA. Hence, the resultant level at the windows due to the fan operating will be 41dBA. This level is 3.2dBA below the design noise criteria, and compares well with the calculated levels in 6.1 above.

6.4 From the calculations and measurements as detailed in 6.2 and 6.3 above we have concluded that the resultant noise level from the new fan installation is between 1.2dBA and 3.2dBA below the design noise criteria, and such meets with the planning requirements of the local authority (London Borough of Camden).

7.0 Conclusion

7.1 A background noise level survey has been carried out at 15-16 Leigh Street, London

7.2 Based upon the survey results and discussions with the local planning authority, criteria applicable to noise from the mechanical services plant have been established.

7.3 A plant noise assessment has been carried out on the proposed mechanical plant installations and it has been established that the new kitchen extract plant located in the rear garden meets the planning requirements of the local authority.

Appendix 1 - Glossary of Terms

Decibel, dB	A unit of level derived from the logarithm of the ratio between the value of a quantity and a reference value. For sound pressure level (Lp) the reference quantity is $2x10^{-5}$ N/m^2. The sound pressure level existing when microphone measured pressure is $2x10^{-5}$ N/m^2 is 0 dB, the threshold of hearing.
L	Instantaneous value of Sound Pressure Level (Lp).
Frequency	Is related to sound pitch; frequency equals the ratio between velocity of sound and wavelength.
A weighting	Arithmetic corrections applied to values of Lp according to frequency. When logarithmically summed for all frequencies, the resulting single "A weighted value" becomes comparable with other such values from which a comparative loudness judgement can be made, then, without knowledge of frequency content of the source.
$L_{eq,T}$	Equivalent continuous level of sound pressure which, if it actually existed for the integration time period T of the measurement, would possess the same energy as the constantly varying values of Lp actually measured.
$L_{Aeq,T}$	Equivalent continuous level of A weighted sound pressure which, if it actually existed for the integration time period, T, of the measurement would possess the same energy as the constantly varying values of Lp actually measured.
$L_{n,T}$	Lp which was exceeded for n% of time, T.
$L_{An,T}$	Level in dBA which was exceeded for n% of time, T.
$L_{max,T}$	The instantaneous maximum sound pressure level which occurred during time, T.
$L_{Amax,T}$	The instantaneous maximum A weighted sound pressure level which occurred during time, T.
Background Noise Level	The value of $L_{A90,T}$, ref. BS4142:1997.
Traffic Noise Level	The value of $L_{A10,T}$.
Specific Noise Level	The value of $L_{Aeq,T}$ at the assessment position produced by the specific noise source, ref. BS4142:1997.
Rating Level	The specific noise level, corrected to account for any characteristic features of the noise, by adding a 5 dBA penalty for any tonal, impulsive or irregular qualities, ref. BS4142:1997.
Specific Noise Source	The noise source under consideration when assessing the likelihood of complaint.
Assessment Position	Unless otherwise noted, is a point at 1 m from the façade of the nearest affected sensitive property.

Appendix 2 - Environmental Noise Monitoring Data

Date	LAeq	LA90
(2014/04/01 11:17:20.00)	56.1	55.6
(2014/04/01 11:25:15.00)	55.9	53.5
(2014/04/01 11:35:17.00)	58.4	53.7
(2014/04/01 11:45:19.00)	57.9	53.8
(2014/04/01 11:55:22.00)	57.1	54.3
(2014/04/01 12:05:24.00)	57	52.7
(2014/04/01 12:15:27.00)	53.2	52.6
(2014/04/01 12:25:30.00)	55.1	54.5
(2014/04/01 12:35:34.00)	53.7	52.5
(2014/04/01 12:45:36.00)	53.9	51.7
(2014/04/01 12:55:38.00)	52.8	52.2
(2014/04/01 13:05:41.00)	55.3	51.6
(2014/04/01 13:15:43.00)	52.6	51.9
(2014/04/01 13:25:47.00)	51.8	51
(2014/04/01 13:35:49.00)	53	51.7
(2014/04/01 13:45:52.00)	56.6	52.4
(2014/04/01 13:55:54.00)	54	52.2
(2014/04/01 14:05:58.00)	52.4	52
(2014/04/01 14:16:00.00)	53.7	51.6
(2014/04/01 14:26:03.00)	56.5	51.4
(2014/04/01 14:36:05.00)	55.8	51.3
(2014/04/01 14:46:08.00)	52	51.4
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(2014/04/01 17:57:00.00)	55.8	51.8
(2014/04/01 18:07:03.00)	57	56.3
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Date	LAeq	LA90
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Date	LAeq	LA90
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(2014/04/03 01:36:11.00)	50.8	50.1
(2014/04/03 01:46:14.00)	50.7	50
(2014/04/03 01:56:17.00)	50.8	50.1
(2014/04/03 02:06:20.00)	50.6	49.9
(2014/04/03 02:16:24.00)	50.8	50
(2014/04/03 02:26:26.00)	51	50
(2014/04/03 02:36:28.00)	50.3	49.9
(2014/04/03 02:46:31.00)	50.2	49.8
(2014/04/03 02:56:34.00)	50.7	49.9
(2014/04/03 03:06:37.00)	50.6	49.8
(2014/04/03 03:16:40.00)	50.7	49.9
(2014/04/03 03:26:44.00)	50.6	49.8
(2014/04/03 03:36:46.00)	50.5	49.8
(2014/04/03 03:46:50.00)	50.7	50
(2014/04/03 03:56:52.00)	50.5	49.9
(2014/04/03 04:06:55.00)	50.7	49.9
(2014/04/03 04:16:57.00)	50.5	49.8
(2014/04/03 04:27:00.00)	50.4	49.7
(2014/04/03 04:37:02.00)	50.7	50
(2014/04/03 04:47:05.00)	50.5	49.8
(2014/04/03 04:57:08.00)	49.8	48.8
(2014/04/03 05:07:11.00)	50	48.6
(2014/04/03 05:17:15.00)	50	48.9
(2014/04/03 05:27:17.00)	50.9	49.8
(2014/04/03 05:37:20.00)	50.8	50
(2014/04/03 05:47:22.00)	50.9	50
(2014/04/03 05:57:25.00)	51.1	50.3
(2014/04/03 06:07:29.00)	51.7	50.1
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(2014/04/03 06:27:35.00)	50.8	50.1
(2014/04/03 06:37:38.00)	51.3	50.5
(2014/04/03 06:47:41.00)	51.4	50.2
(2014/04/03 06:57:43.00)	51.1	50.3
(2014/04/03 07:07:46.00)	51.2	50.4
(2014/04/03 07:17:48.00)	51.1	50.4
(2014/04/03 07:27:51.00)	51.1	50.4
(2014/04/03 07:37:55.00)	51.1	50.3
(2014/04/03 07:47:57.00)	51.2	50.3
(2014/04/03 07:58:00.00)	51.2	50.4
(2014/04/03 08:08:03.00)	52.2	50.5
(2014/04/03 08:18:07.00)	57	50.6
(2014/04/03 08:28:09.00)	51.2	50.3
(2014/04/03 08:38:12.00)	52.2	50.3
(2014/04/03 08:48:14.00)	51.5	50.5

Date	LAeq	LA90
(2014/04/03 08:58:17.00)	55.7	50.8
(2014/04/03 09:08:20.00)	52.2	50.7
(2014/04/03 09:18:23.00)	52.7	50.7
(2014/04/03 09:28:26.00)	51.6	50.9
(2014/04/03 09:38:29.00)	52.2	50.9
(2014/04/03 09:48:32.00)	51.8	50.9
(2014/04/03 09:58:34.00)	52.8	50.9
(2014/04/03 10:08:37.00)	53.6	52.7
(2014/04/03 10:18:40.00)	53.7	53.2
(2014/04/03 10:28:43.00)	53.3	52.6
(2014/04/03 10:38:46.00)	53	52.2
(2014/04/03 10:48:49.00)	54.5	52.2
(2014/04/03 10:58:52.00)	53.1	51.7
(2014/04/03 11:08:55.00)	52.9	52.3
(2014/04/03 11:18:58.00)	55.1	52.3
(2014/04/03 11:29:01.00)	57.3	56
(2014/04/03 11:39:04.00)	56.6	56
(2014/04/03 11:49:07.00)	57.8	55.9
(2014/04/03 11:59:10.00)	58.2	55.5
(2014/04/03 12:09:13.00)	57.1	55.3
(2014/04/03 12:19:16.00)	57.1	55.6
(2014/04/03 12:29:19.00)	58.9	55.8
(2014/04/03 12:39:22.00)	55.7	52.7
(2014/04/03 12:49:25.00)	52.5	52
(2014/04/03 12:59:28.00)	53.1	52.1
(2014/04/03 13:09:31.00)	53.5	52
(2014/04/03 13:19:34.00)	52.5	51.9
(2014/04/03 13:29:37.00)	62.6	52.3

Figure 1

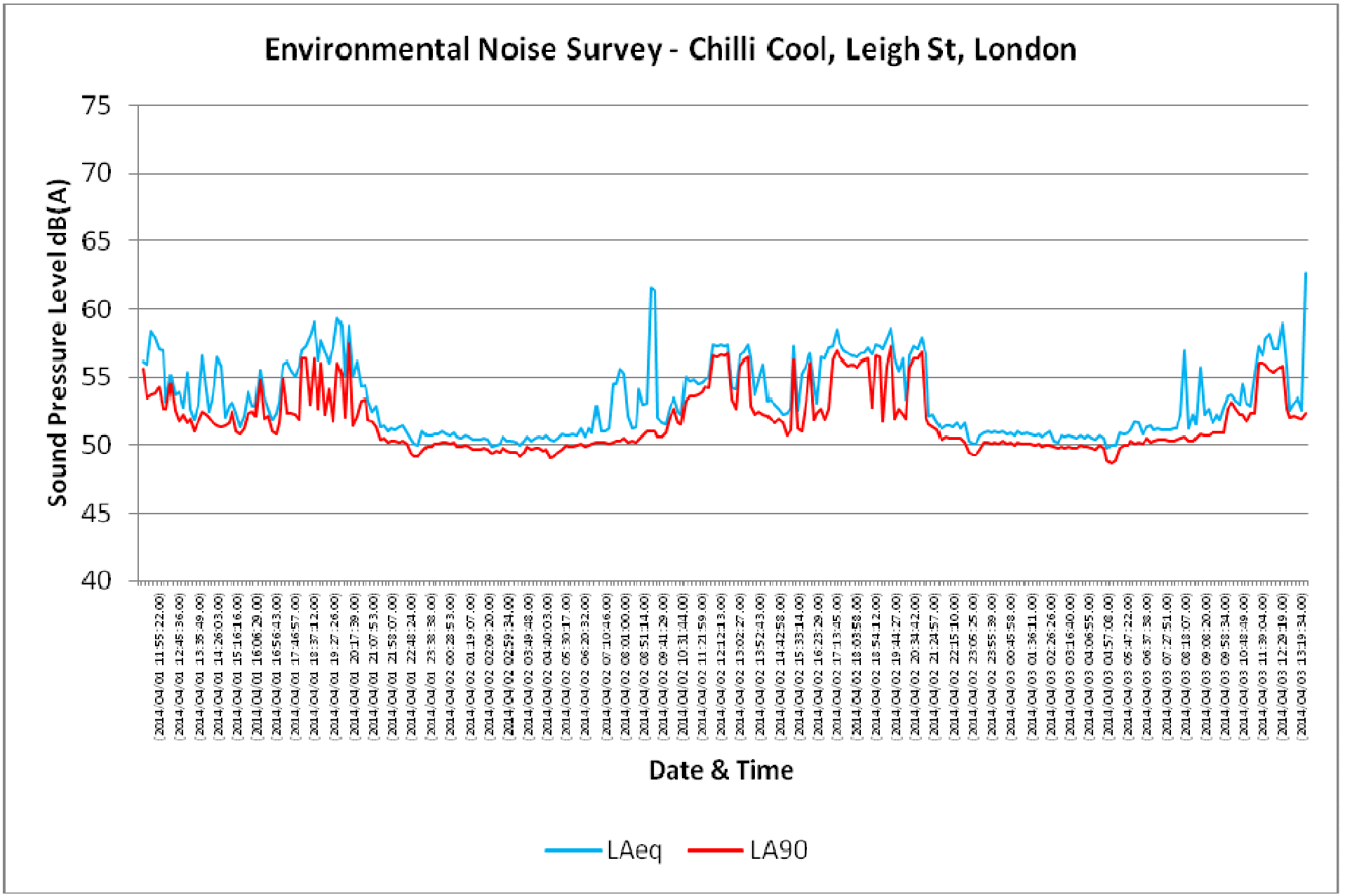
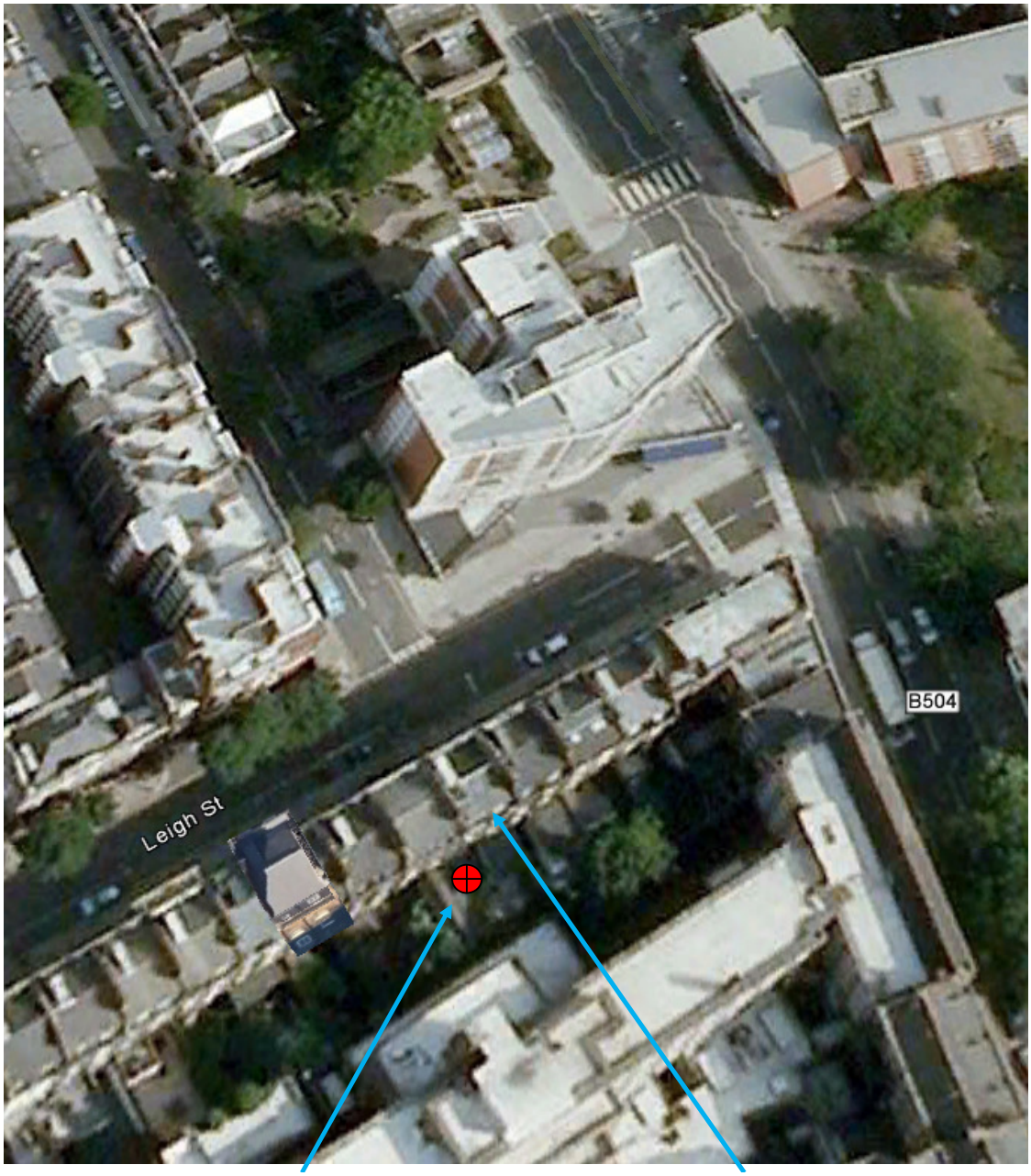

Environmental Noise Survey - Chilli Cool, Leigh St, London
Sound Pressure Level dB(A)
75
70
65
60
55
50
45
40
Date & Time
LAeq
LA90

Figure 2



NOICO Noise Control Engineers	Project: 15-16 Leigh Street, London	Title: Noise Survey Position
	Dwg No. 340339 Rev A	Survey date: 1st April 2014
	Patrick House, Station Road Hook, Hampshire RG27 9HU	Tel: 01256 766207 Fax: 01256 768413