

**42151/T01v2**

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Dear Tim

### **163 Iverson Road Commissioning Noise Measurements**

Planning Permission ref 2012/0099/P (dated 12 December 2012) contains conditions relating to internal and external noise levels and requires that compliance with the noise criteria is demonstrated by measurement on completion of the scheme. The relevant conditions are given in full in Appendix A and the criteria are summarised below:

#### **Condition 18**

Indoor noise levels should not exceed 30dB  $L_{Aeq,1hour}$  in living rooms and bedrooms. Typical maximum noise levels in bedrooms at night should not exceed 45dB  $L_{AFmax}$  (on the basis of the WHO guidance that 10-15 maximum noise events over 45dB  $L_{AFmax}$  per night is acceptable).

Note that the intention of the wording of this condition (in Appendix A) was clarified with Mario Houska of Camden CC Environmental Health Department in late 2013 and is understood to be as summarised above.

#### **Condition 19**

The noise level in open spaces/communal areas (including balconies) should not exceed 50dB  $L_{Aeq,T}$ .

This is assumed to relate to a 16-hour daytime period (T).

## 1.0 Summary of Measured Noise Levels

### 1.1 Condition 18 - Internal Noise Levels

#### 1.1.1 Measurement Details

Noise levels were measured in one room per apartment. A selection of bedroom and living rooms were chosen based on being the worst case in terms of window area and room size. The noise levels measured can reasonably be expected in other rooms on the same facades.

In each case a sound level meter was located on a tripod approximately 1.5m above the floor. Windows were closed. Noise was recorded continuously for a minimum 21-hour total period. The  $L_{Aeq1hour}$  was measured for a total of approximately 13 hours during the day and 8 hours at night. Maximum noise levels were measured in 1 minute intervals. Level triggered audio recordings were made in two rooms each day so that the source of any high levels of noise could be determined.

Rooms were unoccupied and unfurnished at the time of the measurements. The window and façade elements of the building have been designed based on fully fitted and furnished rooms with a reverberation time of 0.5 seconds at mid frequencies. Therefore, the reverberation time ( $T_{20}$ ) was measured in a typical living room and bedroom and a correction applied to the measured noise levels (dBA) to account for the levels being elevated due to the increased reverberation time.

The measured reverberation times are given in Appendix B. The corrections applied are summarised below.

	Measured $T_{20}$ Average 250Hz - 4kHz	Level Correction $10\log(T_{20}/0.5)$
Flat 9 (1F) Living Room	1.38s	4dB
Flat 9 (1F) Bedroom	0.79s	2dB

### 1.1.2 Measured Noise Levels

The measured noise levels (corrected for reverberation time) are summarised below. The raw data is given in Appendix C.

Note that the daytime measurements were affected by noise from construction activity on site (with typical working hours of 08:00 - 19:00 at the time of the measurements). Some of the hourly measurements below are higher as a result. Where a measurement is higher than about 30dB  $L_{Aeq}$ , the audio recordings from the sound level meters has been checked and the source of the noise during that hour ascertained.

After analysis of the audio recorded, we are confident that the elevated levels during the day are due to construction noise (or sirens) and would be significantly lower under normal circumstances. The majority of hourly noise levels recorded are lower than 30dB  $L_{Aeq}$  and indicate the noise levels to be expected in the absence of any site activity. For example, House 1 (measured Weds 8 June) is a good representation of the noise levels on the Iverson Road façade in the absence of site activity.

#### Living Rooms, Day, dB $L_{Aeq,1hour}$

	House 1 (GF)	Flat 1 (GF)	Flat 3 (GF)	Flat 5 (1F)	Flat 8 (1F)	Flat 12 (2F)	Flat 14 (2F)	Flat 16 (3F)	Flat 23 (4F)
14:10 - 15:00	30.7	40.8	40.6	28.4	30.5	28.9	38.8	28.3	33.8
15:00 - 16:00	27.7	40.3	40.7	32.9	32.3	27.1	35.9	30.3	30.8
16:00 - 17:00	26.8	30.7	41.9	30.8	32.8	28.9	37.9	31.4	33.1
17:00 - 18:00	25.9	25.8	42.1	29.4	31.5	28.6	36.2	31.3	28.7
18:00 - 19:00	29.2	24.6	30.2	35.4	31.9	27.8	31.2	28.9	28.8
19:00 - 20:00	24.5	25.5	30.9	23.1	27.4	25.1	30.5	27.0	27.2
20:00 - 21:00	24.8	24.2	28.2	21.2	27.5	23.9	31.0	27.0	27.3
21:00 - 22:00	22.8	22.2	28.1	22.5	25.9	25.9	29.0	24.2	26.6
22:00 - 23:00	23.5	22.5	26.6	21.6	27.1	24.7	29.6	23.7	27.3

	House 1 (GF)	Flat 1 (GF)	Flat 3 (GF)	Flat 5 (1F)	Flat 8 (1F)	Flat 12 (2F)	Flat 14 (2F)	Flat 16 (3F)	Flat 23 (4F)
07:00 - 08:00	27.2	17.5	33.7	22.8	31.4	26.5	29.4	30.1	26.6
08:00 - 09:00	26.7	20.0	39.7	35.5	35.0	25.3	38.7	28.8	29.4
09:00 - 10:00	27.7	20.7	43.8	34.5	31.3	24.7	34.7	28.3	30.5
10:00 - 11:00	27.0	23.6	44.8	28.2	34.9	48.6	33.9	28.8	32.2
L <sub>Aeq,13hour</sub>	27.0	32.8	39.9	30.9	31.6	38.0	34.9	28.9	30.0

### Bedrooms, Night, dB L<sub>Aeq,1hour</sub>

	House 2 (1F)	House 3 (2F)	Flat 2 (LGF)	Flat 4 (LGF)	Flat 6 (1F)	Flat 7 (1F)	Flat 9 (1F)	Flat 10 (2F)	Flat 11 (2F)	Flat 13 (2F)	Flat 15 (3F)	Flat 17 (3F)	Flat 18 (3F)	Flat 19 (3F)	Flat 20 (3F)	Flat 21 (4F)	Flat 22 (4F)
23:00 - 00:00	23.4	29.8	20.7	17.4	21.4	19.4	19.9	17.6	19.5	20.5	22.5	17.8	16.6	23.4	22.1	21.9	25.4
00:00 - 01:00	21.4	23.4	21.6	18.0	19.5	18.1	19.1	15.5	18.0	19.2	22.2	17.9	16.6	20.5	22.5	27.2	19.7
01:00 - 02:00	28.7	27.7	19.0	16.8	18.2	25.4	17.7	15.4	26.2	18.1	21.7	16.4	15.6	21	19.1	25.0	19.8
02:00 - 03:00	19.2	21.7	17.9	17.7	16.7	16.7	17.0	14.3	16.2	16.8	21.8	16.2	15.7	18.5	17.8	21.1	18.1
03:00 - 04:00	19.0	22.1	17.2	15.7	17.1	16.9	16.6	15.5	16.3	17.2	23	15.4	15.1	18	15.5	21.0	18.4
04:00 - 05:00	17.6	27.0	18.6	15.8	17.0	16.1	16.9	18.5	15.1	16.9	21.8	15.2	14.9	19.3	16.4	21.2	18.0
05:00 - 06:00	21.3	25.6	18.7	17.4	17.4	19.1	17.0	19.1	18.5	17.5	24.1	17.0	15.5	20.9	18.2	21.6	21.2
06:00 - 07:00	22.0	n/a	21.2	18.5	20.6	18.7	20.3	19.3	18.4	20.0	24.6	16.8	16.0	27	21.3	22.5	21.5

	House 2 (1F)	House 3 (2F)	Flat 2 (LGF)	Flat 4 (LGF)	Flat 6 (1F)	Flat 7 (1F)	Flat 9 (1F)	Flat 10 (2F)	Flat 11 (2F)	Flat 13 (2F)	Flat 15 (3F)	Flat 17 (3F)	Flat 18 (3F)	Flat 19 (3F)	Flat 20 (3F)	Flat 21 (4F)	Flat 22 (4F)
L <sub>Aeq</sub> ,8hour	23.1	26.2	19.6	17.3	18.8	20.0	18.3	17.3	20.2	18.5	22.8	16.7	15.8	22	19.8	23.3	21.0
No. of L <sub>A</sub> F <sub>max</sub> ,1 min over 45dB	8	13	3	0	1	3	0	0	5	1	2	1	0	8	2	1	1

### 1.1.3 Discussion

The noise levels recorded show that the night time internal noise level criteria are met in bedrooms in terms of both L<sub>Aeq</sub> and L<sub>Amax</sub> levels. In living rooms during the day the results were affected by construction site activity but the results indicate that the internal noise level criteria will normally be met.

## 1.2 Condition 19 - External Noise Levels

### 1.2.1 Measurement Details

Occupied balconies (i.e. those that are not just access walkways) are located on the Iverson Road façade of the building.

Noise levels were measured on a selection of balconies, one on each floor of the building. In each case a sound level meter was located on a tripod approximately 1m above the floor (height of a seated person). Noise was recorded outside of construction site working hours during the day, typically 18:30 to 23:00 and 07:00 to 08:00, though data is given until 11:30. It is noted that the noise level on the balconies is most important in the late afternoon/evening when these spaces are most likely to be occupied by residents.

Noise was also measured in the communal garden area for a one-hour period in the late afternoon at a position approximately in the centre of the garden (the part that is not underneath the overhanging building).

## 1.2.2 Measured Noise Levels

The measured noise levels are summarised below. The raw data is given in Appendix C. Noise levels recorded after about 08:00 are likely to have been influenced by construction site noise but are given for information.

### Open Spaces, Day, dB L<sub>Aeq,T</sub>

	Balcony Flat 4 (GF)	Balcony Flat 8 (1F)	Balcony Flat 9 (1F)	Balcony House 2 (2F)	Balcony Flat 19 (3F)	Communal Garden
18:30 - 19:00	61.0	61.1	61.3	52.9	59.3	-
19:00 - 20:00	61.8	61.5	60.3	53.2	58.7	60.7*
20:00 - 21:00	63.4	63.1	57.7	53.8	56.0	-
21:00 - 22:00	65.2	65.4	57.2	56.7	55.7	-
22:00 - 23:00	58.8	58.4	57.8	51.2	56.1	-
07:00 - 08:00	65.2	64.7	59.0	58.4	57.3	-
08:00 - 09:00	65.5	63.7	70.2	54.7	64.3	-
09:00 - 10:00	65.1	64.2	67.0	54.4	62.2	-
10:00 - 11:00	65.6	64.2	61.1	55.3	58.7	-
11:00 - 11:30	63.9	63.7	68.7	57.0	63.4	-
L <sub>Aeq</sub> 18:30 - 23:00	62.7	62.6	58.8	54.1	57.2	-
Average LA <sub>90</sub> 18:30 - 23:00	47.5	49.6	41.4	45.8	41.8	41.9*

\* measured 18:43 - 19:43

### 1.2.3 Discussion

The noise levels recorded show that in general, noise levels on balconies and in the garden area are in the region of 60dB L<sub>Aeq</sub>. This is typical of a development in an urban location and is lower than would be expected in external areas in most London city locations.

The table above gives the L<sub>A90</sub> measured during the evening for comparison. The L<sub>A90</sub> represents the steady constant "background" noise level, whereas the L<sub>Aeq</sub> is comprised of many short term events such as cars passing. The steady noise level is below 50dB(A) in all locations.

The noise level given in Condition 19 is very onerous and unlikely to be achievable in any inner city location. This was discussed in the original noise reports included in the planning application for the scheme and subsequently with Mario Houska at Camden CC in 2013, along with the practicality of mitigation options, which would probably be limited to enclosing the balconies. It was acknowledged that this would be impractical.

Noise levels in the region of those measured above (and in fact higher than those above) were predicted in external areas and balconies of the development and presented in the noise reports that have been reviewed by Camden CC.

Yours sincerely,



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## Appendix A - Planning Conditions

- 18 Before building works commence on the site, a scheme shall be submitted to and approved in writing by the Local Planning Authority providing for the insulation of the proposed dwelling unit(s) so that externally generated noise from railway and road traffic noise, do not cause internal noise levels to exceed an indoor ambient noise levels in unoccupied rooms of 30 dB(A) LA eq (1hour) and individual noise event shall not exceed 45 dB LAmax. The development shall be carried out in such a manner to ensure that the above noise levels (from railway and road traffic) are to be retained for the next 15 years.

On completion, a test on each dwelling shall be carried out to verify compliance with this condition. A report shall be produced containing all raw data and showing how calculations have been made. A copy of such report shall be submitted to and approved in writing by the Local Planning Authority. The Noise report shall clearly contain standards used, measurements locations, raw tabulated and graphically represented data, time, date etc.

(For the residential accommodation the design and construction criteria for development of building shall have regard to the good criteria set out in BS 8233:1999 Sound insulation and noise reduction for buildings - Code of Practice. The scheme shall include full details on noise mitigation measures to be incorporated including window glazing and room ventilation provisions. Where ventilation is required it should be capable of achieving the same noise reduction as the closed glazing or building structure).

Reason: To safeguard the amenities of future occupants in accordance with the requirements of policies CS5 of the London Borough of Camden Local Development Framework Core Strategy and policy DP26 and DP28 of the London Borough of Camden Local Development Framework Development Policies.

- 19 Before building works commence on the site, a scheme shall be submitted to and approved in writing by the Local Planning Authority providing full details of the acoustic measures to be incorporated to ensure that the steady noise level does

not exceed 50 LAeq,T dB in open spaces (including balconies) and open communal areas.

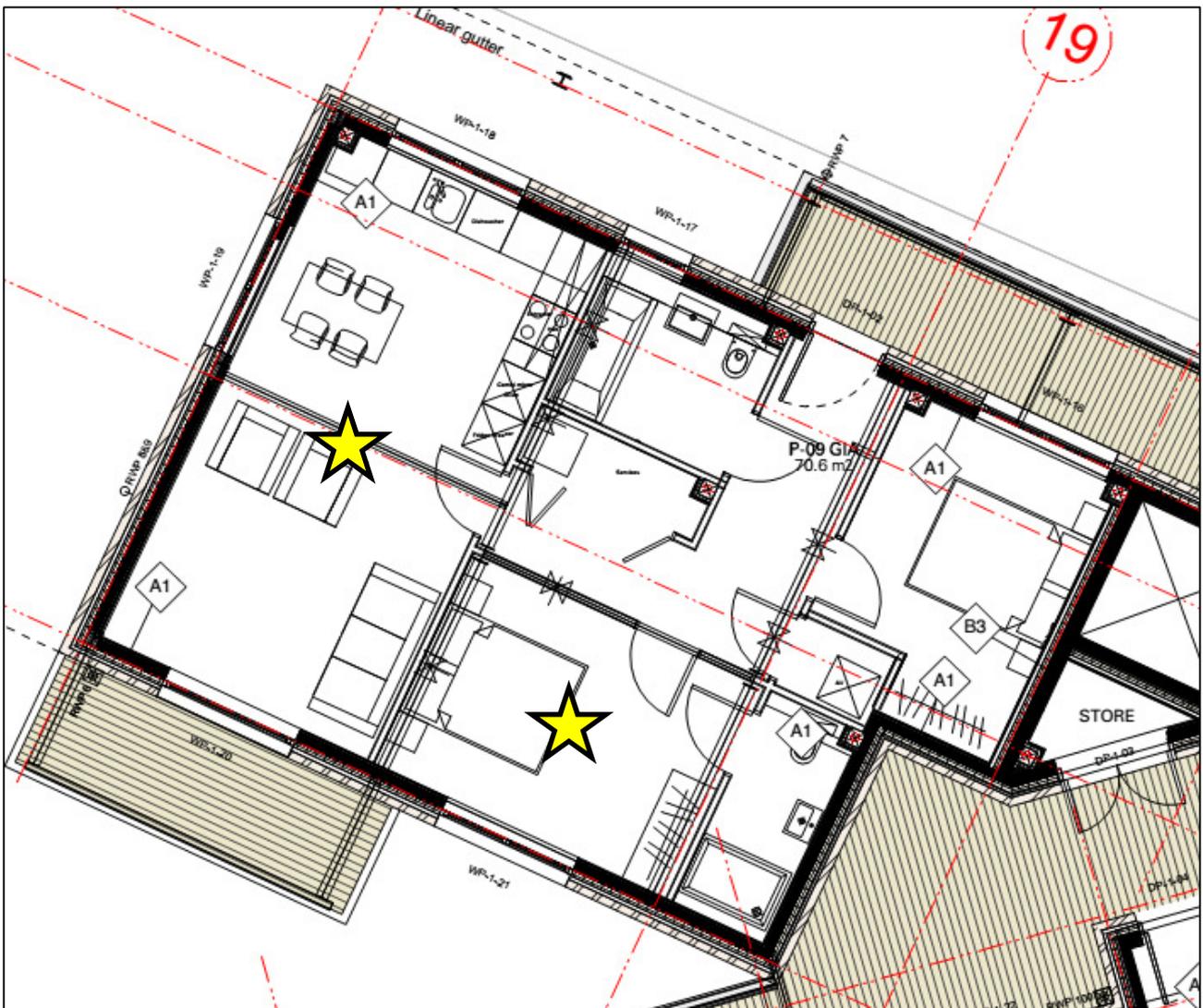
The development shall be carried out in such a manner to ensure that the above noise levels (from railway and road traffic) are to be retained (including maintenance) for the next 15 years.

On completion a test on each open communal including balconies shall be carried out to verify compliance with this condition. A report shall be produced containing all raw data and showing how calculations have been made. A copy of such report shall be submitted to and approved in writing by the Local Planning Authority. The Noise report shall clearly contain standards used, measurements locations, raw tabulated and graphically represented data, time, date etc.

Reason: To safeguard the amenities of future occupants in accordance with the requirements of policies CS5 of the London Borough of Camden Local Development Framework Core Strategy and policy DP26 and DP28 of the London Borough of Camden Local Development Framework Development Policies.

## Appendix B - Measured Reverberation Times

	Octave Band Reverberation Time, $T_{20}$ , seconds						
	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
Flat 9 Living Room	0.73	0.88	1.11	1.16	1.60	1.65	1.71
Flat 9 Bedroom	0.70	0.79	0.90	0.78	0.69	0.79	0.90



## Appendix C - Measured Noise Level Data

The measured noise data is given overleaf.

This is the raw data (no reverberation time correction applied).

The data has been arranged so that the start time of the daytime measurement (14:10), the night (23:00) and the following day (07:00) are aligned for ease of reference.

The start date of the logging period is given for each flat.

Data for the measurements on the balconies are given for the daytime part of the logging period only (18:30 - 23:00 and 07:00 - 11:30).

























Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
18:31	60.5	69.1	18:31	60.8	67.6	18:31	65	75.1	18:31	46.8	59	18:31	51.5	57.1
18:32	57.9	68.2	18:32	58	66.1	18:32	69	81.3	18:32	63.2	73.4	18:32	52.5	63.9
18:33	60.5	68.4	18:33	60.7	70.9	18:33	53.2	66.5	18:33	67	77.8	18:33	54.8	68.6
18:34	59.2	65.3	18:34	60.2	66.3	18:34	69.5	77.4	18:34	51.4	63.9	18:34	52.2	57
18:35	60.2	69.5	18:35	60.8	68.8	18:35	46.7	59.1	18:35	67.7	75.1	18:35	50.7	61.7
18:36	59.2	71.1	18:36	59.7	68.1	18:36	54.3	61.2	18:36	45.6	53.4	18:36	52.4	56.4
18:37	59.8	68	18:37	59.4	65.9	18:37	45.2	54.1	18:37	53	60.8	18:37	50.6	56.9
18:38	55.9	65.2	18:38	56.9	64.6	18:38	51.7	61.1	18:38	44.6	50.9	18:38	51.7	61.8
18:39	60.8	68.3	18:39	61.4	67	18:39	45.2	56.3	18:39	51.4	60.2	18:40	51	58.4
18:40	54.6	67.6	18:40	54.4	62.4	18:40	47.4	61.9	18:40	43.7	49	18:41	53.3	60.4
18:41	54.7	64.1	18:42	55.5	61.7	18:41	48.3	67.7	18:41	46.8	56.6	18:42	49.5	56.5
18:42	64.1	70.7	18:43	64	69.2	18:42	64.1	75	18:42	45.3	62.3	18:43	49.8	56.7
18:43	59.7	67.8	18:44	59	67.4	18:43	56	75.4	18:43	62.4	74.2	18:44	55.1	63.6
18:44	63.2	77.3	18:45	62.5	75.4	18:44	60.4	71.1	18:44	51.9	73	18:45	51.9	57.8
18:45	57.2	65.5	18:46	57.5	66	18:45	48.2	67.4	18:45	58.4	69.1	18:46	52.3	60.7
18:46	61.7	75.2	18:47	61.4	71.8	18:46	47.8	61.6	18:46	47.2	61.4	18:47	50.8	58.2
18:47	67.8	81.1	18:48	68.3	80.4	18:47	44.5	52.9	18:47	46.9	56.2	18:48	52.3	57.4
18:48	61.6	69.6	18:49	61.4	67.8	18:48	66.9	76.1	18:48	46.3	55.1	18:49	59.1	69.9
18:49	60.4	68.5	18:50	61.1	67.1	18:49	62.5	70.6	18:49	63.8	74.3	18:50	56.9	74.3
18:50	61.2	69	18:51	61	68.5	18:50	49.8	63.1	18:50	62.3	72.4	18:51	51.6	55.8
18:51	59.7	69.6	18:52	59.8	69.1	18:52	62.6	72.1	18:51	47.6	57.8	18:52	52.8	60.2
18:52	56.2	67.5	18:53	57.9	67	18:53	48.7	61.8	18:52	60.7	71.8	18:53	51.6	58.2
18:53	62.3	70.2	18:54	62.4	68.6	18:54	63.8	75.9	18:53	49.5	65.3	18:54	49	56.7
18:54	62.1	77.7	18:55	62	72.2	18:55	46.6	62.3	18:54	61.9	74.1	18:55	53.8	57.6
18:55	62.4	73	18:56	62.2	70	18:56	58.2	70.2	18:55	44.6	55.9	18:56	52.5	58.6
18:56	59.8	73	18:57	59.7	69	18:57	58.2	69.1	18:56	52.6	62.5	18:57	51.7	59
18:57	60.1	69.8	18:58	59.8	67.8	18:58	44.7	55.4	18:57	55.8	69.5	18:58	52.1	61.5
18:59	59	70.7	18:59	58.5	68	18:59	47.6	60.6	18:58	42.6	48.9	18:59	50.9	55.7

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
19:00	65	73.6	19:00	64.2	70.6	19:00	51.2	62.4	18:59	46.5	59.7	19:00	51.6	61.4
19:01	59.5	71.1	19:01	61.1	78.3	19:01	70.3	81.8	19:00	52.9	70.1	19:01	55.8	66.1
19:02	60.3	68.6	19:02	60.2	68	19:02	55.6	63.1	19:02	68.4	79	19:02	51.3	57.2
19:03	56.4	64.7	19:03	56.8	62.7	19:03	44.4	53.8	19:03	54.6	63.6	19:03	53.9	59.8
19:04	61.5	70	19:04	61.2	68	19:04	68.9	80.7	19:04	43.8	50.5	19:04	50.7	55.5
19:05	60.8	70.8	19:05	60.6	68.1	19:05	55.9	75.8	19:05	66.8	78.2	19:05	51.5	61.8
19:06	62.6	70.3	19:06	63.2	69.5	19:06	56.6	76	19:06	52.1	73	19:06	53.7	59.9
19:07	62.6	70.2	19:07	62	68.9	19:07	55	68.3	19:07	54.7	73	19:07	53.9	63.7
19:08	63.7	76.6	19:08	63.4	74	19:08	60.3	72.1	19:08	47.2	56.5	19:08	52.9	58.2
19:09	61.2	73.6	19:09	61.2	71.4	19:09	50.9	73.6	19:09	60.1	71.4	19:10	53.7	58.8
19:10	61.5	70.3	19:11	61.4	69.2	19:10	52.9	76.4	19:10	48.5	70.9	19:11	52	57
19:11	60.7	71.1	19:12	60.7	70	19:11	47.8	67.1	19:11	50.8	73.8	19:12	51.8	56.9
19:12	62.2	71.9	19:13	61.6	68.6	19:12	53.9	69.6	19:12	44.9	63.3	19:13	51.3	59.6
19:13	63	71.6	19:14	62.5	70.7	19:13	53.5	63.7	19:13	47.2	65.2	19:14	52.7	56.8
19:14	62.9	70.5	19:15	62.8	69.1	19:14	51.9	63.8	19:14	54.2	66	19:15	56.8	67.2
19:15	61	71.4	19:16	60.6	70.7	19:15	57.3	71.4	19:15	46.7	60.7	19:16	53.4	58.7
19:16	62	71.9	19:17	61.9	70.3	19:16	46.5	64.2	19:16	57.5	69.1	19:17	51.6	57.8
19:17	62.6	71.5	19:18	62	69.5	19:17	51.9	59.2	19:17	44.5	50.3	19:18	52.8	60.2
19:18	62.5	70.3	19:19	62.2	68.3	19:18	52.3	63.8	19:18	50.3	59.9	19:19	57.4	74.2
19:19	62.5	75.9	19:20	62.4	74	19:19	61	71.9	19:19	49	59.5	19:20	53	58
19:20	60.2	70.4	19:21	59.8	67	19:21	61	72.6	19:20	59.8	70.4	19:21	51.9	56.9
19:21	59.2	68.3	19:22	59	65.9	19:22	56.8	72.4	19:21	56.5	68.3	19:22	53.1	58
19:22	59.7	68.2	19:23	59.5	66.1	19:23	46	62.3	19:22	61.6	73.4	19:23	51.6	57.3
19:23	63.3	73	19:24	62.9	69.6	19:24	65.7	76.6	19:23	44.9	57.5	19:24	53.3	61.8
19:24	63.6	74.3	19:25	63.4	72.9	19:25	49.8	60.6	19:24	64.2	75.4	19:25	52.7	56.5
19:25	56.4	70.9	19:26	56	67.4	19:26	64.1	74.7	19:25	47.5	60.2	19:26	53.5	59.3
19:26	60.7	67.4	19:27	60.7	66	19:27	50.1	64.4	19:26	62.6	73.3	19:27	50	55.2
19:28	57.7	70.9	19:28	57.4	68.2	19:28	50.3	64.7	19:27	46.8	60.5	19:28	53	58.9

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
19:29	64.1	76.7	19:29	63.5	74	19:29	48.2	61.4	19:28	47.3	59.9	19:29	50.2	60.8
19:30	63.6	75.1	19:30	63.3	73.3	19:30	54.5	66.3	19:29	46.9	55.7	19:30	53.9	63
19:31	64.4	76.7	19:31	64	74.7	19:31	46	59.3	19:31	54.1	65.2	19:31	53.9	60.5
19:32	60.4	69.6	19:32	59.5	66.9	19:32	61.7	73.7	19:32	45.3	55.9	19:32	56.1	67.7
19:33	59.2	68.4	19:33	58.9	66.6	19:33	49.7	63.4	19:33	59.2	71.5	19:33	52.6	59.9
19:34	60.5	69.9	19:34	59.7	65	19:34	46.7	59.1	19:34	46.4	57.3	19:34	50.3	56.3
19:35	63.3	73.6	19:35	62.6	71	19:35	52.8	63.3	19:35	44.2	57.6	19:35	50.5	54.8
19:36	60.6	70.5	19:36	60.6	69.3	19:36	56.6	71.2	19:36	47.3	57	19:36	52.2	58.5
19:37	59.6	70.4	19:37	59.4	67	19:37	70	84	19:37	54.5	64.5	19:37	53.3	60.4
19:38	63.6	70.8	19:38	63	68.7	19:38	44.6	54.4	19:38	68.9	80.5	19:38	53.8	59.4
19:39	63.4	76.9	19:40	62.4	73.8	19:39	45.3	53.6	19:39	45.2	50.7	19:40	54.3	63.4
19:40	62.8	71	19:41	62.2	69	19:40	46.4	57.8	19:40	44.4	49.2	19:41	54.6	61.6
19:41	63.6	72.7	19:42	63.4	70.4	19:41	59.4	75.5	19:41	45.5	57.9	19:42	54.1	58.8
19:42	65.5	79.2	19:43	65.2	76.6	19:42	47.7	63	19:42	57.5	69.7	19:43	55	60.2
19:43	62.2	72	19:44	62	71.1	19:43	43.9	51.1	19:43	46.2	57.7	19:44	53.3	58.4
19:44	63.2	73.1	19:45	62.7	70.7	19:44	53.1	61.3	19:44	42.3	55.3	19:45	55.3	61.4
19:45	59.2	72.4	19:46	58.8	72	19:45	50.2	62.4	19:45	51.8	58.8	19:46	51.1	57.1
19:46	62.4	78.3	19:47	61.7	75.4	19:46	46.6	63	19:46	49.1	62.2	19:47	54.5	61.4
19:47	60.5	71.9	19:48	60.3	69	19:48	47	61.6	19:47	44.9	53.6	19:48	52.6	67.9
19:48	56.1	68.1	19:49	55.9	70.1	19:49	63	75.4	19:48	44.9	58.1	19:49	51.9	58.1
19:49	61.9	72.1	19:50	63.3	75.3	19:50	47.6	58.8	19:49	61.3	73.7	19:50	48.6	54.5
19:50	63.3	74	19:51	62.8	71.5	19:51	60.2	69.7	19:50	49.3	59.5	19:51	53.6	58.9
19:51	59.8	71.6	19:52	58.9	68.5	19:52	57.7	71.9	19:51	56.1	65.8	19:52	55.1	61.4
19:52	59.9	67	19:53	59.1	64.8	19:53	63.5	74.5	19:52	56.4	67.5	19:53	52.7	69.5
19:53	57.6	68.3	19:54	57.3	63.7	19:54	50.1	63.1	19:53	53.7	65.6	19:54	51	56.2
19:54	60.5	72.4	19:55	59.9	69	19:55	54	67.3	19:54	60.5	72.9	19:55	52.5	66.2
19:55	59.2	74.6	19:56	58.8	72.2	19:56	45	58.1	19:55	51	59.7	19:56	50.5	59.1
19:57	60.9	73.6	19:57	60	70.3	19:57	45	63.5	19:56	46.3	59.1	19:57	52.3	59.6

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
19:58	59.5	70.3	19:58	59.1	67.9	19:58	69.4	81	19:57	43.2	60.4	19:58	51.9	58.4
19:59	61.6	69.9	19:59	61.3	67	19:59	51.6	63	19:59	67.7	79	19:59	51.6	59.1
20:00	57.3	69.2	20:00	57.8	67.1	20:00	46.7	63.2	20:00	51	60.5	20:00	54.5	60.2
20:01	64.3	71.7	20:01	64.4	69.6	20:01	46.6	63.1	20:01	45.4	59.7	20:01	51.1	56.6
20:02	64.7	76.3	20:02	64.3	73.2	20:02	46.8	63.6	20:02	45.1	53.9	20:02	54.5	58.9
20:03	61.2	68.5	20:03	61	66.3	20:03	63.6	74.7	20:03	45.2	57.5	20:03	53.7	61.6
20:04	59.5	70.4	20:04	59.4	68	20:04	54.7	64.5	20:04	62	72.5	20:04	53.7	60.8
20:05	58	66.4	20:05	58.3	66.5	20:05	70.7	84.2	20:05	53.4	63.6	20:05	52	57.9
20:06	59.8	70.6	20:06	58.9	67.8	20:06	44.1	62.7	20:06	68.9	81.7	20:06	52.2	56.4
20:07	54.2	65.7	20:07	54.8	62	20:07	47.1	60.4	20:07	42	56.5	20:08	52.3	59.2
20:08	61.7	70.5	20:09	61.4	69.3	20:08	49	64.3	20:08	44.8	55.1	20:09	48.3	54.1
20:09	63.8	75.2	20:10	63.2	74.1	20:09	51.6	58.9	20:09	45.8	57.1	20:10	51.8	57.2
20:10	60.3	70.3	20:11	60.3	68.7	20:10	56.5	71.2	20:10	51.8	60	20:11	53.6	59.5
20:11	62.2	70.4	20:12	62.1	67.7	20:11	54.1	68.3	20:11	49.9	67.3	20:12	51.1	55.6
20:12	59.7	68.6	20:13	60	67.1	20:12	47.6	66.6	20:12	56	65.2	20:13	52.9	56.9
20:13	61.5	70.1	20:14	60.8	68.6	20:13	44.9	59.5	20:13	46.1	63.2	20:14	51.4	56.4
20:14	62.3	81.1	20:15	61.6	78.5	20:14	50.8	71.1	20:14	45	62.1	20:15	52.1	57.2
20:15	58.7	68.7	20:16	58.3	68.4	20:16	49.3	65.9	20:15	48.2	65.9	20:16	53.8	69.6
20:16	63.1	72.7	20:17	62.6	69.9	20:17	46.5	51	20:16	47.3	63.3	20:17	50.6	56.9
20:17	59.9	72.3	20:18	60	72.8	20:18	46.6	51	20:17	46.2	49.6	20:18	54.4	62.4
20:18	63.8	76.9	20:19	63.1	74.3	20:19	62.2	74.1	20:18	45.8	49.9	20:19	52.4	58.3
20:19	64	78.6	20:20	63.8	76.8	20:20	61.7	74	20:19	60.5	72.4	20:20	54.7	63.2
20:20	64.3	77.6	20:21	64.3	76.5	20:21	43.7	48.8	20:20	60	70.7	20:21	53.9	60
20:21	60.1	68.5	20:22	59.9	66.5	20:22	43.3	49.5	20:21	47.3	65.3	20:22	54.7	66.9
20:22	61.7	73.3	20:23	61.4	70.2	20:23	66.1	80.5	20:22	43.6	52.4	20:23	51.6	58.1
20:23	62.7	72.8	20:24	61.9	70.5	20:24	49.8	73.2	20:23	64.1	76.7	20:24	51.4	58.6
20:25	57.6	66.7	20:25	57.3	65.5	20:25	49.7	58.2	20:24	46.5	64.2	20:25	54.2	65.5
20:26	59.7	70.7	20:26	59.2	68.2	20:26	46.7	58.2	20:25	50.7	59.8	20:26	50.7	61

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
20:27	70.2	88.9	20:27	70.6	87.4	20:27	54.8	63.8	20:26	44.3	51.3	20:27	50	55.6
20:28	62.2	76.7	20:28	61.4	75.4	20:28	47.6	66.2	20:27	55	67	20:28	58.4	70.9
20:29	59	66.9	20:29	59.1	65.3	20:29	47.2	55.8	20:29	46.4	59.2	20:29	54.8	63.6
20:30	66	75	20:30	65.2	73.9	20:30	42.4	47.9	20:30	45.3	53.5	20:30	50.6	54.7
20:31	61.6	69.6	20:31	61.6	67.9	20:31	60.3	71.8	20:31	44.7	50.5	20:31	55.2	62.4
20:32	71.6	83.5	20:32	71.1	80.9	20:32	43.8	52.1	20:32	58.6	69.7	20:32	53.4	63.9
20:33	62	72.4	20:33	61.7	70.3	20:33	51.2	59.4	20:33	45.9	57.2	20:33	58	66.7
20:34	58.2	70.4	20:34	57.5	67.5	20:34	50.7	57.2	20:34	51.1	60.7	20:34	53.9	60.5
20:35	57.2	71	20:35	57.3	68.5	20:35	63.7	73.5	20:35	47.3	55	20:35	49.1	55.9
20:36	59.1	68.5	20:37	58.7	65.3	20:36	46.4	52.9	20:36	48.4	56.5	20:37	49.7	57.3
20:37	63.2	71.9	20:38	62.6	69.4	20:37	51	58.4	20:37	61.9	71.9	20:38	51.8	58.7
20:38	65.2	79.9	20:39	64.6	77.3	20:38	43.5	48.3	20:38	50.8	59.1	20:39	53.6	59.7
20:39	59.4	72.1	20:40	58.7	69	20:39	49.2	66.1	20:39	45	50.6	20:40	53.4	58.9
20:40	70	84.6	20:41	69.8	82.8	20:40	56.5	69.3	20:40	49.1	66.8	20:41	50.4	58.9
20:41	64.6	72.6	20:42	64.1	70.6	20:41	42.3	45.5	20:41	55.8	68.5	20:42	59.3	73.6
20:42	61.8	73.1	20:43	60.7	70.6	20:43	42.7	48.1	20:42	43.1	46.5	20:43	54.3	58.6
20:43	60.8	71.8	20:44	60.2	70.1	20:44	45.6	55.3	20:43	44	47.7	20:44	53.1	60.3
20:44	70.5	84.8	20:45	69.8	82.4	20:45	44.7	52.2	20:44	43.8	52	20:45	51.9	57.1
20:45	61.1	71.2	20:46	60.8	68.6	20:46	51.1	74.6	20:45	46.8	55	20:46	54.8	62.7
20:46	64.4	75.6	20:47	64.5	77.3	20:47	63.9	76.1	20:46	46.8	65.3	20:47	56.8	67
20:47	63	73.4	20:48	62.4	70.9	20:48	49.7	72.6	20:47	60.8	74.4	20:48	55.2	63.4
20:48	58.6	68.3	20:49	58.5	68.3	20:49	48.4	70.7	20:48	52.3	63.3	20:49	53.3	59.5
20:49	60.5	68.5	20:50	61	67.4	20:50	45.2	50.2	20:49	46.3	67.3	20:50	52.8	63.5
20:50	57.8	69.6	20:51	58.1	71	20:51	52.6	60.1	20:50	47.5	61.3	20:51	53.2	58.2
20:51	63.9	73.8	20:52	63.3	71.1	20:52	48.3	58.1	20:51	46	53.5	20:52	51.7	58.9
20:53	55.5	64.9	20:53	56.9	67.4	20:53	41.8	47.7	20:52	53.7	62.2	20:53	54.6	60.1
20:54	62.3	76.3	20:54	62	73.6	20:54	44.1	54.2	20:53	43.5	47.5	20:54	59.2	77.7
20:55	61	71.6	20:55	60	68.4	20:55	48.8	55.8	20:54	40.3	45.7	20:55	52.1	60.2

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
20:56	62	72.5	20:56	61.7	69.7	20:56	43.2	49.6	20:55	49.8	56.6	20:56	52.8	61.7
20:57	58.4	68.5	20:57	58	66	20:57	46.9	58.8	20:56	44	49.3	20:57	53.1	60.1
20:58	60.4	71.6	20:58	59.7	68.2	20:58	64	73.7	20:58	45.2	49.4	20:58	52.1	63.8
20:59	61	72.2	20:59	60.3	69	20:59	42.4	46	20:59	62.8	72.5	20:59	52.4	58.9
21:00	58	71.4	21:00	57.7	67.8	21:00	60.2	70.7	21:00	42.5	53.2	21:00	52.2	58.4
21:01	58.3	70.7	21:01	58.3	67.2	21:01	52.8	62.8	21:01	58.5	69.8	21:01	51.1	58.3
21:02	55.6	65.5	21:02	55.8	66.6	21:02	55.3	65.6	21:02	52.1	62.4	21:02	51.2	56.1
21:03	62.8	76	21:03	62.1	73.8	21:03	43.6	48.6	21:03	55.6	68.7	21:03	48.9	55.7
21:04	61.1	69.5	21:04	60.7	68.7	21:04	61.6	71.9	21:04	45.5	50.1	21:04	53.5	59.2
21:05	58.5	71.4	21:06	58.2	68.6	21:05	42.5	48.8	21:05	60.1	70.6	21:06	53.1	58.4
21:06	57.9	72.6	21:07	57.7	71.1	21:06	41.9	45.2	21:06	45	49.7	21:07	50.3	57.1
21:07	59.2	72.7	21:08	58.2	67.6	21:07	43.4	48.4	21:07	42.7	46.8	21:08	51.6	59.5
21:08	58.2	70.2	21:09	59.1	69.6	21:08	40.5	46.7	21:08	43.9	47.9	21:09	50.1	57.3
21:09	49	61.6	21:10	51.1	64.1	21:10	42.5	48.7	21:09	45.2	52	21:10	52.2	61.1
21:10	61.4	71	21:11	61.4	68.3	21:11	42.2	51.1	21:10	43.6	49.5	21:11	46.8	54.5
21:11	59.2	68.5	21:12	59.3	66.7	21:12	43.9	50	21:11	43.1	47.6	21:12	52.6	56.5
21:12	60.9	71.9	21:13	60.3	70.3	21:13	43.8	49.8	21:12	44.2	49.1	21:13	52.7	58.7
21:13	61.3	75.3	21:14	60.9	73.3	21:14	55.5	65.8	21:13	44.9	51.4	21:14	51.9	58.6
21:14	61.8	76.2	21:15	61.1	73	21:15	43.9	48.3	21:14	54.8	67.7	21:15	50.7	57.4
21:15	60.7	72	21:16	60.4	69	21:16	69.9	82.9	21:15	45.1	49.1	21:16	50.4	57.9
21:16	60.9	68.8	21:17	60.6	66.8	21:17	43.8	50.3	21:16	68.3	79.8	21:17	53.2	56.6
21:17	59.4	67.6	21:18	59.4	64.5	21:18	42.1	49.5	21:17	44.4	48	21:18	53.7	59
21:18	61.2	73.1	21:19	60.5	70.4	21:19	54.3	63	21:18	43.6	49.2	21:19	52.2	59.3
21:19	62.3	76.9	21:20	62.1	75.6	21:20	43.7	51.3	21:19	47.8	57.8	21:20	53.1	62.3
21:21	57.9	67.7	21:21	58.1	68.8	21:21	51.9	75.6	21:20	52.8	61.8	21:21	50.8	54.9
21:22	60.7	71.1	21:22	59.9	68.9	21:22	46.2	54.4	21:21	49.1	72.5	21:22	52.3	60.6
21:23	61.1	68.9	21:23	60.6	67.7	21:23	63.8	75.7	21:22	46.6	51.8	21:23	50	60
21:24	57.9	73.1	21:24	58.6	72.9	21:24	63.9	81.2	21:23	62.2	74	21:24	53.2	58.5

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
21:25	56.7	66.7	21:25	58.3	65.5	21:25	47.6	56.6	21:24	62.2	77.6	21:25	49	55.8
21:26	60.1	69.5	21:26	60.1	67.9	21:26	55.1	61.9	21:26	44.3	48.8	21:26	52	56.5
21:27	61.8	70.2	21:27	61.6	69	21:27	42.7	48	21:27	55.8	65.7	21:27	51.8	57.7
21:28	58.2	65.9	21:28	58.3	65.2	21:28	60	71.2	21:28	44.9	50.7	21:28	52.5	58.5
21:29	59.7	68.8	21:29	58.8	66.6	21:29	43.8	53.9	21:29	58.5	69.8	21:29	50.8	54.9
21:30	56.1	67.1	21:30	56.7	64.8	21:30	53	65.5	21:30	44.7	50.5	21:30	51	56.6
21:31	74.4	91.4	21:31	69.4	85.1	21:31	52.7	63.1	21:31	52.1	62.8	21:31	49.8	56.4
21:32	63.1	80.3	21:32	67.7	87.9	21:32	64.1	76	21:32	54.9	64.9	21:32	64.8	77.5
21:33	55.6	73.6	21:34	54.9	68.9	21:33	62	72.7	21:33	62.7	73.7	21:33	67.5	83.3
21:34	56.3	71.7	21:35	56.4	68.5	21:35	45.5	56	21:34	59.7	71.7	21:35	49.6	55.5
21:35	57.5	68.6	21:36	57.5	65.8	21:36	43.1	54.9	21:35	54.1	64.1	21:36	51.9	59.8
21:36	58.3	73	21:37	55.8	71.1	21:37	43.7	47.7	21:36	43.3	51.5	21:37	49.7	56
21:37	56.2	65.3	21:38	57.3	62.9	21:38	55.4	67.8	21:37	44.5	51.7	21:38	50	57.5
21:38	76.8	92.7	21:39	78.1	95.2	21:39	43.2	48.7	21:38	47.5	55.6	21:39	49.2	54.6
21:39	59.1	68.9	21:40	59.5	71.9	21:40	48.2	64.7	21:39	54.7	65.9	21:40	54.6	69.9
21:40	63	76.7	21:41	62.3	73.4	21:41	55	66.3	21:40	44.8	49.7	21:41	67	82.6
21:41	57.6	72.4	21:42	56.2	68.7	21:42	44.6	48.4	21:41	54.6	68.1	21:42	52.3	59.1
21:42	61	68.7	21:43	60.6	67	21:43	42.4	49.8	21:42	46.1	52	21:43	50.2	59.3
21:43	64	78.7	21:44	63.1	75.7	21:44	41.4	47.3	21:43	45	50.1	21:44	52.4	57.2
21:44	57.6	68.3	21:45	57	65.8	21:45	43	47.4	21:44	40.5	43.7	21:45	53.7	62.1
21:45	58.5	67.5	21:46	58.4	64.9	21:46	42.3	53	21:45	45.2	49.2	21:46	49.7	55.9
21:46	58.3	66.5	21:47	58	65	21:47	45	53.3	21:46	44.5	51.7	21:47	51	56.2
21:47	57.9	70.2	21:48	58.2	67.2	21:48	43.8	53.9	21:47	45.5	55.3	21:48	50.1	55.6
21:48	57.9	73.2	21:49	57.1	69.4	21:49	56.7	69.4	21:48	44.4	50.3	21:49	50.5	57
21:50	61	71.3	21:50	60.6	69.1	21:50	48.4	58.1	21:49	55.3	65.3	21:50	50	60.2
21:51	55.6	65.3	21:51	56.6	67.7	21:51	62.7	74	21:50	46	51.6	21:51	51.8	58.5
21:52	78.1	93.8	21:52	78.8	96.1	21:52	45.4	57.5	21:51	58.9	72.2	21:52	49.7	56.9
21:53	60.3	70.7	21:53	60.1	68.7	21:53	61.6	72.4	21:52	53.8	70.2	21:53	67.6	79.1

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
21:54	56.3	69.5	21:54	55.8	68.1	21:54	41.5	44.4	21:53	60.3	71.7	21:54	52.7	58
21:55	63.8	75.9	21:55	61.2	72.7	21:55	52.2	65	21:55	42.7	48.6	21:55	50.6	64.6
21:56	54.5	66	21:56	54.5	63.7	21:56	44.4	50.4	21:56	40.4	44.7	21:56	51.2	57.5
21:57	61.7	77.9	21:57	62.2	76.3	21:57	42.5	48.4	21:57	52.4	66.1	21:57	46.8	54.8
21:58	60.9	74	21:58	60.1	71.5	21:58	44.2	53.2	21:58	45.2	50.1	21:58	51.4	60.6
21:59	60.5	68.4	21:59	59.9	66.6	21:59	57.1	72.3	21:59	41.2	49.1	21:59	52.2	59.6
22:00	54.9	67.2	22:00	56.1	65.9	22:00	48.6	61.3	22:00	56	72	22:00	51.5	56.5
22:01	59.7	69.6	22:01	59.5	69.5	22:02	44.9	49.7	22:01	46.7	50.8	22:01	49.2	55.5
22:02	54.5	67.3	22:03	54.2	64.2	22:03	53.3	65.5	22:02	47.4	62.5	22:03	49.8	57.1
22:03	60	66.1	22:04	59.6	65.7	22:04	68.9	81.2	22:03	46.4	49.6	22:04	48.1	54.1
22:04	59.8	70.2	22:05	59.7	70.7	22:05	45.5	67.7	22:04	67.5	80	22:05	52.6	68.2
22:05	58.1	71.7	22:06	55.1	64.4	22:06	38.2	43.7	22:05	47.8	68.6	22:06	53.7	60.7
22:06	59.7	71	22:07	61.6	74.2	22:07	53.2	76.5	22:06	40.3	47.4	22:07	47.8	55.5
22:07	49.2	59.7	22:08	54.5	64.2	22:08	40.2	53.1	22:07	42.6	47.2	22:08	51.8	60.5
22:08	59.1	74.2	22:09	57.3	69.4	22:09	43.6	49.1	22:08	55.7	80	22:09	48	54.9
22:09	60.6	69	22:10	60	65.9	22:10	40.3	46.8	22:09	42.1	53.6	22:10	50.3	58
22:10	49.8	60.2	22:11	49.9	60.1	22:11	56.1	68.4	22:10	43	49.9	22:11	52.2	60.8
22:11	55.4	68.7	22:12	54.6	65.8	22:12	43.1	48.5	22:11	54.4	68.8	22:12	43.3	56.4
22:12	58.1	68.8	22:13	57.3	67.1	22:13	41.5	47.8	22:12	44	49.4	22:13	48.2	57.4
22:13	43.2	55.2	22:14	52.1	64.7	22:14	69	80.4	22:13	43.2	46.8	22:14	50.8	58.2
22:14	60	69	22:15	58.4	66.7	22:15	41.8	55.5	22:14	43.4	47.4	22:15	42.3	47
22:15	58.2	73	22:16	59.2	69.6	22:16	41.2	46.9	22:15	67.4	78.1	22:16	51.8	56.9
22:17	59.8	68.2	22:17	59.6	66.9	22:17	40.3	53.1	22:16	42.9	47.4	22:17	52.2	59.7
22:18	51.3	60.2	22:18	53.7	66.7	22:18	38.3	43.1	22:17	41.6	44.7	22:18	51.9	56.8
22:19	57.6	68.8	22:19	56.9	66.2	22:19	40.8	44.6	22:18	40.4	50.6	22:19	44.5	48.8
22:20	56.8	68.4	22:20	57.4	66.2	22:20	41.2	50	22:19	41.1	45.1	22:20	46.8	54
22:21	59	71.7	22:21	58.1	68.9	22:21	39.8	47.8	22:20	43.4	47.5	22:21	50.9	57.8
22:22	59.5	67.6	22:22	60.3	68.8	22:22	42.2	52.6	22:21	41.7	51.1	22:22	50.4	55

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
22:23	55.5	67.3	22:23	56.7	69.4	22:23	42.3	49.6	22:23	43.4	49.1	22:23	51.4	55
22:24	46.4	57.2	22:24	46.9	57.5	22:24	55.7	63.1	22:24	41.8	53.4	22:24	49.4	56.6
22:25	62.5	71.4	22:25	61.5	69.4	22:25	50.4	56	22:25	44	50.6	22:25	44.1	51.4
22:26	60.7	69.4	22:26	58.8	67.3	22:26	43.4	49.7	22:26	55	64	22:26	53.4	58.5
22:27	56.3	67.6	22:27	58.3	67.1	22:28	39.3	46.3	22:27	50.1	57.7	22:27	58	73.1
22:28	60.9	70.8	22:28	60.6	68.6	22:29	65.2	80.1	22:28	43.3	46.7	22:28	54.6	65.6
22:29	67.3	80.2	22:29	66.5	78.6	22:30	66.4	84.4	22:29	42.5	54.1	22:29	51.2	58.1
22:30	58.6	69.8	22:30	58.1	67.3	22:31	44.6	51.8	22:30	68	81.1	22:31	59.1	70.9
22:31	60.9	72.1	22:32	60.2	70	22:32	46.3	61.5	22:31	51.9	63.5	22:32	53.7	60.5
22:32	59	72.3	22:33	57.4	69.7	22:33	38.7	43.2	22:32	42.7	51.4	22:33	52.5	58.3
22:33	57.9	68.2	22:34	57.9	67.2	22:34	39.4	44.2	22:33	46	60.4	22:34	46.9	53
22:34	57.6	73.6	22:35	56.5	70	22:35	40.7	46.8	22:34	40.4	44.2	22:35	52.3	59.8
22:35	58.2	72.8	22:36	53.5	62.1	22:36	39.1	52.6	22:35	41.4	45.9	22:36	48.6	60
22:36	60.4	73.4	22:37	61	70.5	22:37	41.3	48	22:36	41.4	49.5	22:37	47.1	52.8
22:37	61.8	70	22:38	61.5	68.7	22:38	37.3	43.6	22:37	41.4	53.4	22:38	51	57.8
22:38	52.2	64.9	22:39	51.9	63.4	22:39	43.6	56.8	22:38	41.4	46	22:39	51	56.4
22:39	57.2	67.8	22:40	57	66.3	22:40	40.1	43.5	22:39	38.8	42.3	22:40	46.5	51.5
22:40	58.9	70.1	22:41	59.6	70.3	22:41	52.9	68.1	22:40	45.3	56.9	22:41	48.3	53.5
22:41	52.4	62.4	22:42	50.3	60.5	22:42	54.1	66.1	22:41	40.2	45.8	22:42	50.4	57.1
22:42	47.9	60.2	22:43	51.4	59.9	22:43	43.3	62.4	22:42	55.9	67	22:43	44.7	55.2
22:43	56.9	68.7	22:44	56.4	66.7	22:44	41.5	52.3	22:43	43.7	57.3	22:44	47.4	52.5
22:45	58.8	70.2	22:45	58.1	71.7	22:45	59.2	66.7	22:44	42.9	56.8	22:45	48.4	53.8
22:46	61.6	72.4	22:46	61	69.7	22:46	42.8	47.6	22:45	43.6	55.9	22:46	49.5	55.3
22:47	62.6	73.2	22:47	61.9	69.2	22:47	40	55.4	22:46	57.7	65.2	22:47	52.4	57.7
22:48	57.3	67.6	22:48	57.9	65.3	22:48	37.7	47.7	22:47	43.4	47.1	22:48	54.1	59.3
22:49	53.6	65.4	22:49	51.6	62.3	22:49	50.5	74.1	22:48	39.9	53.3	22:49	48.8	54.3
22:50	57.5	69	22:50	56	65.7	22:50	40.2	46	22:49	43.4	64.8	22:50	45.8	53.7
22:51	59.2	69.7	22:51	59.6	68.9	22:51	45.3	50.8	22:50	42.2	53.6	22:51	48.3	56.4

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
22:52	61	75	22:52	61.7	74.1	22:53	66.6	77.7	22:52	42.5	51.6	22:52	51.3	59.3
22:53	49.4	56.5	22:53	51.1	57.1	22:54	40.8	49.7	22:53	57.3	74	22:53	52.8	59
22:54	52.7	67	22:54	52.2	64.2	22:55	43.5	54.8	22:54	62.2	76.3	22:54	50.4	57.1
22:55	45.2	50.4	22:55	48.5	54.6	22:56	58	65.4	22:55	42.5	50.6	22:55	46.1	62.5
22:56	58.5	70.7	22:56	58.2	70	22:57	41.7	49.8	22:56	49.4	58.1	22:56	45.1	54.7
22:57	59.1	72.3	22:57	58.1	69	22:58	36.2	40.4	22:57	55.7	64.1	22:57	50.5	59.6
22:58	56.1	69.6	22:58	55.4	69	22:59	64.1	76.2	22:58	41	51	22:58	50.6	62.2
22:59	59.9	71.4	23:00	57.8	68.4	23:00	41.1	47.5	22:59	51.3	62.7	22:59	49.1	57.9
07:00	60.7	70.8	07:01	59.3	67.2	07:04	42.3	53.2	07:00	67.2	78.6	07:01	54.7	62.2
07:01	57.5	67.9	07:02	60	67.1	07:05	46.1	54.7	07:01	42.5	52.3	07:02	50	55.4
07:02	65.4	76.4	07:03	63.3	74.2	07:06	55.6	63.7	07:02	62.2	74.5	07:03	51.9	57.1
07:04	62.3	70.2	07:04	63.6	71.4	07:07	43.4	49.7	07:03	41.9	46.8	07:04	51.5	59
07:05	67	82	07:05	65.5	80.4	07:08	41.4	47.4	07:04	42.2	45.8	07:05	52.6	59.3
07:06	57.7	68.2	07:06	61.1	69.8	07:09	56.5	67.7	07:05	43.6	50.4	07:06	57.8	72.8
07:07	61.1	71.2	07:07	61.1	70.8	07:10	41.6	46.7	07:06	55.2	63.1	07:07	51.7	57
07:08	63.3	75.7	07:08	62.3	73.2	07:11	41.9	47.4	07:07	43.4	47.7	07:08	49.8	56.8
07:09	61.6	71.6	07:09	62.5	69.9	07:12	58.9	70.3	07:08	42.6	47.5	07:09	50.1	58.4
07:10	61.5	72.2	07:10	61.9	71.2	07:13	49	66.4	07:09	50.2	67.7	07:10	52.2	59
07:11	61.3	74.5	07:11	57.1	65.4	07:14	41.9	56.7	07:10	52.2	60.6	07:11	51.3	58.2
07:12	61.2	71.4	07:12	61.7	72.4	07:15	42.1	48.3	07:11	43.2	47.5	07:12	51	59.8
07:13	61.6	69.4	07:13	63.5	70.9	07:16	58.6	67.6	07:12	41.4	49.6	07:13	52.6	59
07:14	65.4	77.5	07:14	65.3	75.8	07:17	40.6	47.5	07:13	59.7	70.5	07:14	54.1	63
07:15	62.8	82.3	07:15	63.6	80	07:18	42.8	48.8	07:14	42.8	57.5	07:15	54.5	62.5
07:16	64.2	73.8	07:16	64.3	72.9	07:19	51.5	59.3	07:15	41	49.7	07:16	57.3	79.1
07:17	58.4	72.4	07:17	55.5	70.8	07:20	70.1	83.9	07:16	46.8	58	07:17	53.6	60.2
07:18	61.6	72.6	07:18	59.2	68.5	07:21	42.8	50.1	07:17	56	65.9	07:18	54.1	69.4
07:19	63.7	74.8	07:19	64.9	74.1	07:23	53.5	63.5	07:19	43	48.1	07:19	50.8	61.9
07:20	63.9	74.1	07:20	61.9	68.9	07:24	44.6	52.4	07:20	50.8	60.7	07:20	53.2	60.9

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
07:21	63.6	72.2	07:21	64.9	72.6	07:25	41.6	47.8	07:21	68.3	81.2	07:21	53.2	59.2
07:22	57.8	67.6	07:22	57	66.2	07:26	62.3	72	07:22	42.8	46.9	07:22	55.9	60.2
07:23	62.4	69.5	07:24	61.6	68.6	07:27	54	63.3	07:23	43.8	49.3	07:23	52.3	60.4
07:24	60.3	68.7	07:25	62.8	70	07:28	58.2	68.4	07:24	53.1	64.9	07:24	51.4	57.2
07:25	63.2	73.8	07:26	59.5	68.4	07:29	44.7	55.4	07:25	43.3	52.4	07:25	53.1	59.7
07:26	67.6	79.7	07:27	68.4	79.2	07:30	62.4	71.8	07:26	43	50.3	07:26	50.8	57.4
07:27	64	71.8	07:28	64.9	70.9	07:31	44.3	51.5	07:27	62.1	71.6	07:28	53.7	63.5
07:28	66.9	79.3	07:29	63.9	74	07:32	60.8	72.3	07:28	45.6	52	07:29	58.7	72.3
07:29	63.7	73.5	07:30	64.3	76.9	07:33	45.6	56.6	07:29	57	66.6	07:30	54.5	61.2
07:31	65.5	77.1	07:31	65.2	74.6	07:34	45.9	56.9	07:30	58.8	73.3	07:31	56.3	67.9
07:32	60	70.4	07:32	62.6	75.1	07:35	50.3	62	07:31	56.5	65.8	07:32	52.3	59.1
07:33	68.2	82.4	07:33	60.5	69	07:36	55.7	73.5	07:32	42.1	46.1	07:33	52.5	56.8
07:34	62.8	77.1	07:34	67.5	77.4	07:37	59.1	72.6	07:33	59.1	70.5	07:34	49	54.8
07:35	63.4	74.4	07:35	61.9	72.3	07:38	42.8	49	07:34	43.3	51.6	07:35	56.3	62.6
07:36	63.8	77.6	07:36	64.3	76.1	07:39	65.5	75.3	07:35	45.6	54.8	07:36	54.3	64.7
07:37	62	72.1	07:37	59.1	68.8	07:40	45.1	54.1	07:36	52.8	60.6	07:37	52.9	58.1
07:38	66.3	78.8	07:38	65.7	76	07:41	61.9	74	07:37	55.5	70.6	07:38	49.1	54.3
07:39	62.7	73.2	07:39	63.9	74.1	07:42	59.5	74.3	07:38	54.6	64	07:39	55.2	62
07:40	60.6	69.6	07:40	61.5	70.2	07:43	56.5	72.4	07:39	43.1	46.9	07:40	55	65.8
07:41	62.6	72.2	07:41	59.4	67.5	07:45	62.2	72.4	07:40	64	73.9	07:41	52.1	61.8
07:42	63.8	74.5	07:42	64.5	72.1	07:46	58.7	71	07:41	46.4	57.8	07:42	53.4	64.1
07:43	65.3	76.9	07:43	63.4	70.5	07:47	51.3	70.5	07:42	56.2	65	07:43	55	62
07:44	60.2	67.5	07:44	61.3	75.1	07:48	62	72.1	07:43	51.3	61	07:44	53.4	59.3
07:45	66.1	80	07:45	64.4	76.3	07:49	57.6	77.3	07:45	50.3	64.3	07:45	54.1	62.5
07:46	73.9	89.7	07:46	65.3	82.9	07:50	53.8	76.5	07:46	54.7	64	07:46	53.4	66.9
07:47	70.7	84.4	07:47	74.6	88.4	07:51	48	62.7	07:47	56.5	66.6	07:47	54.3	67.3
07:48	60.3	69.6	07:48	61	67.1	07:52	50.1	62.8	07:48	45.6	62.2	07:48	74.2	90.6
07:49	59.5	70.9	07:49	52.2	58	07:53	61.7	72.4	07:49	60.8	70.7	07:49	51.8	58.6

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
07:50	74.1	87.5	07:51	73	84.8	07:54	45.5	62.6	07:50	50.5	68.9	07:50	50.1	56.1
07:51	63.9	74.2	07:52	64	76.4	07:55	53.3	67.6	07:51	50.1	71.2	07:51	55.5	60.1
07:52	62.1	80.8	07:53	60.1	74.1	07:56	53	70.3	07:52	45	57.4	07:52	55.9	64.2
07:53	65	77.4	07:54	62.8	72.5	07:57	51.1	66.6	07:53	46.7	57.5	07:53	51.7	61.3
07:54	65.9	79.7	07:55	64.8	73.8	07:58	68	80.2	07:54	57.9	67.9	07:54	52.1	59.6
07:56	62.5	74.5	07:56	60.7	72.3	07:59	50.5	69.1	07:55	43.3	57.2	07:56	53	57.8
07:57	61.1	69.6	07:57	61.2	69.2	08:00	54.8	68.6	07:56	53.7	61.9	07:57	49.1	56.2
07:58	67.9	86.4	07:58	66.3	82.6	08:01	66.3	76.8	07:57	47.6	66.3	07:58	51.2	57.8
07:59	66.4	75.1	07:59	66.2	74	08:02	57.7	71.3	07:58	64.4	78.1	07:59	52.3	57.7
08:00	60	72	08:00	62	68.2	08:03	45.3	53.5	07:59	62	77.9	08:00	54.8	65.8
08:01	63.6	75.2	08:01	62.4	74.6	08:04	61.8	73.3	08:00	47.5	64.7	08:01	53	57.2
08:02	65.8	77.2	08:02	64.8	75.4	08:06	53	72	08:01	53.7	67	08:02	51.9	57.2
08:03	64.8	72.5	08:03	65	70.1	08:07	61.9	71.4	08:02	64	75.5	08:03	52	57.4
08:04	64.6	74.4	08:04	65.2	71	08:08	51.4	67.3	08:03	51.5	63.9	08:04	55.7	63.6
08:05	62.8	73.8	08:05	62.7	69.6	08:09	55.4	69.4	08:04	44.4	51	08:05	52.7	57.4
08:06	77.4	98.7	08:06	59.2	70.1	08:10	62.2	74.5	08:05	59.5	71.1	08:06	53.5	58.8
08:07	62.2	73	08:07	70.6	89.2	08:11	58.7	69.8	08:06	49.8	62.6	08:07	51.8	56.1
08:08	62	71.5	08:08	60.4	65.1	08:12	60.8	75.4	08:07	60.4	69.4	08:08	53.3	62.1
08:09	61.4	70.8	08:09	60.5	67	08:13	58.6	70.1	08:08	48.4	62	08:09	54.7	60.4
08:10	67.1	73.7	08:10	65.1	71.8	08:14	57	71.3	08:09	51.7	63.9	08:10	55.1	62.3
08:11	66.8	76.2	08:11	66.4	73.4	08:15	67.8	81.2	08:10	60	71.6	08:11	52.5	56.6
08:12	63	71.9	08:12	60.8	71	08:16	58.5	71.5	08:12	56.3	67.1	08:12	54.1	58.1
08:13	62.2	69.5	08:13	63.2	70.9	08:17	68.8	76.9	08:13	57.8	72.8	08:13	54.4	61.6
08:14	63.1	70.1	08:14	59.5	67.5	08:18	62.4	71.5	08:14	56.1	72.7	08:14	56.2	67.9
08:15	63.9	71.9	08:16	63.8	68.2	08:19	70.6	83.8	08:15	52.5	67.8	08:15	53.9	62.4
08:16	65.5	78.9	08:17	66.9	76.1	08:20	65.9	76.8	08:16	64.2	74.8	08:16	53.7	64.6
08:17	63.6	70.9	08:18	63.3	68.1	08:21	69.2	91.1	08:17	51.6	62.5	08:17	53.1	58.4
08:18	65.4	73.5	08:19	61.5	67.4	08:22	57.2	73.3	08:18	65.6	75.7	08:18	58.2	66.4

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
08:19	66.4	72.7	08:20	67.2	72.2	08:23	64.4	80.1	08:19	56.8	64.9	08:20	54.8	60.4
08:20	64.9	75.7	08:21	62.3	70.4	08:24	66.7	79.2	08:20	68	81.3	08:21	54.4	59.7
08:22	64.9	73.8	08:22	68	77.3	08:25	61.3	72.5	08:21	59.3	71	08:22	60.7	70.1
08:23	60.3	70.2	08:23	59.3	66.5	08:27	59.9	71.1	08:22	62.7	82.3	08:23	55.9	62.1
08:24	62.5	72.6	08:24	59.3	68.6	08:28	62.4	75.2	08:23	51.7	66.6	08:24	58.8	66
08:25	65	74.1	08:25	63.5	71.1	08:29	77.6	87.5	08:24	57.4	71.7	08:25	53.2	57.6
08:26	63.9	73.5	08:26	65.4	72.8	08:30	72.1	79.7	08:25	61.5	73.7	08:26	52.9	58.8
08:27	67.7	84.7	08:27	63	70.9	08:31	71.3	82.9	08:26	55.3	65.9	08:27	54.3	58.6
08:28	59.9	67.5	08:28	64.6	75.8	08:32	79	86.8	08:27	55.1	63.4	08:28	52.6	57.3
08:29	61.7	71	08:29	61.3	69.5	08:33	65.1	72.3	08:28	55.6	68.2	08:29	54.7	66.8
08:30	64.2	73.5	08:30	61.8	70.2	08:34	65	72.9	08:29	69.8	78.7	08:30	53.9	59.3
08:31	62.4	76.2	08:31	64.7	74.6	08:35	72.9	86.2	08:30	66.6	73.8	08:31	54.4	59
08:32	66.4	78.5	08:32	65.6	75.7	08:36	79.5	91	08:31	65.7	78.5	08:32	53	59.6
08:33	63.4	72	08:33	63.6	69.6	08:37	62.9	71.6	08:32	72.3	82.1	08:33	56.1	61.8
08:34	62.7	68.1	08:34	62.3	68.2	08:38	78.2	87.8	08:33	63.2	77.8	08:34	53.7	59.1
08:35	61	69.4	08:35	61.3	67.3	08:39	77.3	85.1	08:34	63.3	71.3	08:35	53.2	59.6
08:36	58.2	62.9	08:36	58.6	66.3	08:40	66.6	80.7	08:35	57.7	68.1	08:36	55.6	62.1
08:37	60.5	67.6	08:37	59.5	64.5	08:41	65.9	79.6	08:36	73.2	83.4	08:37	55.7	60.3
08:38	61.9	70.2	08:38	60.7	67.4	08:42	64.3	80.2	08:38	59	67.1	08:38	55.5	62
08:39	61.9	76.9	08:39	61.7	74.1	08:43	65.4	75.7	08:39	70.4	80.5	08:39	54.9	61.1
08:40	63.2	79	08:41	61.7	71.8	08:44	63.5	78	08:40	68.9	77.7	08:40	53.2	58.9
08:41	63.6	74.2	08:42	61.2	68	08:45	62.4	81.8	08:41	69.3	77.9	08:41	52.6	63.8
08:42	63.2	72.8	08:43	63.1	71.5	08:46	58.3	69.1	08:42	61.3	79.4	08:42	50.8	61.8
08:43	67.3	72.5	08:44	65.2	72.9	08:47	76.3	86.6	08:43	61.6	72.8	08:44	54.6	65.1
08:44	69.9	83	08:45	67.8	77.9	08:49	71.2	81.6	08:44	62.5	73.5	08:45	53.3	60.9
08:45	62.8	74	08:46	62.1	71.3	08:50	57.8	68.7	08:45	60.1	78.4	08:46	53.9	63.9
08:46	60.6	68.9	08:47	59.8	64.9	08:51	66.2	81.9	08:46	59.5	73.8	08:47	57.5	76
08:48	61.4	68.5	08:48	60.5	66.5	08:52	67	84.5	08:47	54.4	70.3	08:48	59.9	73

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
08:49	60.9	73.4	08:49	59.9	71.6	08:53	65.4	80.2	08:48	67.4	79.6	08:49	53.4	64
08:50	64.9	73.3	08:50	64.3	72.3	08:54	65.2	78.8	08:49	68.1	79.7	08:50	50.8	55.3
08:51	64.8	73.8	08:51	62.1	72.4	08:55	63.9	72.2	08:50	57.1	69.7	08:51	53.5	57.5
08:52	69	75.2	08:52	66.9	73.4	08:56	64.6	76.1	08:51	64.1	83.4	08:52	52.8	58.5
08:53	60.4	69.8	08:53	62.1	70.3	08:57	61	74.6	08:52	63.4	79.2	08:53	53	64.4
08:54	59.3	66.7	08:54	60.1	66	08:58	71.6	84.8	08:53	65.3	83.8	08:54	52.5	63.6
08:55	62.7	77.4	08:55	60.5	72.8	08:59	67.7	78.5	08:54	58.7	70.8	08:55	55.7	60.2
08:56	61.1	74.6	08:56	61.8	70.6	09:00	64.4	77.9	08:55	55.5	66.7	08:56	51	57.7
08:57	66.8	80.7	08:57	65.6	77.2	09:01	66.5	78.3	08:56	58.6	69.8	08:57	52.2	63.5
08:58	63.9	80.1	08:58	61.9	74.4	09:02	73.3	80.6	08:57	58.9	70.2	08:58	54	66.9
08:59	65.5	85.5	08:59	61.5	78.4	09:03	64.9	79.9	08:58	69.4	82.2	08:59	54.4	63.3
09:00	63.3	71	09:00	65.4	77.7	09:04	69.6	85.6	08:59	57.3	74.4	09:00	53.8	62.9
09:01	63.3	73.3	09:01	62.2	71.5	09:05	65.7	78.5	09:00	64.9	72.6	09:01	56.2	65
09:02	69.3	78.6	09:02	66	75.7	09:06	64.2	79	09:01	55	64.8	09:02	54.3	63.9
09:03	69.1	79	09:03	67.6	76.1	09:07	68.1	77.2	09:02	67.8	73.7	09:03	55.6	66.1
09:04	60.9	71.5	09:04	60	72.4	09:08	72.8	82.2	09:03	63.3	69.8	09:04	59.3	66.3
09:05	62.4	74.4	09:05	63.2	69.3	09:09	63.6	77	09:05	61.7	72.5	09:05	53	64.4
09:06	64.7	74.8	09:06	63.2	71.3	09:11	63.8	78	09:06	62.3	76.8	09:06	55.1	64.1
09:07	70.3	88.3	09:08	68.8	84.4	09:12	63.5	78.4	09:07	56.7	70.3	09:07	51.3	60.9
09:08	60.3	67	09:09	61	67.6	09:13	63.9	75.3	09:08	61.3	72.4	09:08	54.3	61.9
09:09	61.5	68.5	09:10	61.8	69.8	09:14	67.5	77.3	09:09	65.2	70.1	09:09	59	72.7
09:10	61	73.3	09:11	59.9	79.5	09:15	67.3	81.4	09:10	63.3	75.3	09:11	49.9	54.6
09:11	70.8	85	09:12	64	70.5	09:16	60.8	75.4	09:11	57.7	70	09:12	50.9	54.3
09:12	63.5	75	09:13	70.2	82.3	09:17	67.9	80.6	09:12	56.7	68	09:13	52.5	57.8
09:13	64	73.7	09:14	63.1	71.9	09:18	61.1	71.6	09:13	59.2	71.6	09:14	58.4	67
09:15	66.6	78.2	09:15	62	70.7	09:19	70.5	81.3	09:14	62.5	80.9	09:15	52.6	59.4
09:16	63.3	78	09:16	61.1	68.8	09:20	74.7	78.5	09:15	61.7	73.3	09:16	55.7	61.2
09:17	65.2	79.4	09:17	60.3	66.3	09:21	72.4	80.2	09:16	62.3	73.8	09:17	51	56.3

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
09:18	67	80.4	09:18	60.7	67.8	09:22	58.9	76.4	09:17	62	78.3	09:18	52.7	62.9
09:19	63.3	74.8	09:19	64.7	76.2	09:23	59	71.3	09:18	64.3	79.7	09:19	52	58.4
09:20	60.6	67.5	09:20	60.5	66.6	09:24	48.3	62.3	09:19	68	79.2	09:20	52	57.1
09:21	64.2	73.5	09:21	60.8	68.3	09:25	52.5	65.5	09:20	65.5	72.2	09:21	53.2	59.4
09:22	63.3	71.9	09:22	63.1	69	09:26	62	71.9	09:21	69.5	79.6	09:22	53.2	58
09:23	63	73.3	09:23	63.1	68.8	09:27	46.7	63.1	09:22	64.1	77.8	09:23	54.4	61.7
09:24	63.1	72.3	09:24	64.1	71.4	09:28	48.9	65.5	09:23	53.2	69.2	09:24	53.4	60.1
09:25	65.6	73.6	09:25	63.7	71.5	09:29	62.5	74.3	09:24	51.9	64.5	09:25	54.1	63.4
09:26	61.4	70.6	09:26	59.3	68.7	09:30	55.8	70.3	09:25	47.7	59.4	09:26	52.5	62.6
09:27	66.5	81.6	09:27	66.5	77.1	09:31	62.6	72.9	09:26	49.3	58.7	09:27	52.6	58.4
09:28	63.5	72.3	09:28	59.8	67.6	09:33	53.9	67.1	09:27	60.5	71.1	09:28	53	63.1
09:29	62.9	71.6	09:29	64.9	70.3	09:34	59.4	68.8	09:28	43.8	48.1	09:29	53.6	61.4
09:30	64.6	74	09:30	61.6	70.8	09:35	62.7	73	09:29	50.6	64	09:30	54.7	59.8
09:31	65.6	85.2	09:31	65	82.6	09:36	55.5	67.9	09:30	58.8	71.3	09:31	57.4	74.7
09:32	66.2	79.5	09:32	64.1	76.3	09:37	54.3	61.7	09:31	52.2	64.9	09:32	53.3	62.7
09:33	63.1	69.5	09:34	64.5	70.6	09:38	55	68.6	09:33	60.1	70.2	09:33	55	64.5
09:34	67	80	09:35	65.7	76.8	09:39	69.8	85.4	09:34	57.5	67.6	09:34	54.1	61.4
09:35	62	70	09:36	62.7	70.6	09:40	76.8	89	09:35	54.3	64.9	09:35	54.6	61.7
09:36	62.1	72	09:37	63.9	74	09:41	60.7	74.4	09:36	60.3	71.1	09:36	52.7	63.5
09:37	62.8	73.4	09:38	60.6	68.9	09:42	61.9	72.2	09:37	50.3	60.9	09:38	52.6	56.5
09:38	61.2	67.6	09:39	60.6	70.8	09:43	54.6	64	09:38	53.8	59.2	09:39	51.1	62
09:39	59.7	69.5	09:40	60.3	68.5	09:44	59.7	73.1	09:39	48.8	61.4	09:40	52.9	58.1
09:41	64.5	73.9	09:41	62.8	70.3	09:45	58	69.9	09:40	71.3	81.1	09:41	51.6	56.4
09:42	59.4	69.9	09:42	62.3	71.8	09:46	61.4	72.4	09:41	49.9	65.1	09:42	51	55
09:43	61.8	72.7	09:43	62	71.1	09:47	51.1	64.2	09:42	54.7	63.7	09:43	53.5	59.5
09:44	61.6	73.7	09:44	61.4	70.8	09:48	65.8	76.9	09:43	59.9	70.5	09:44	52.1	58.7
09:45	60.7	69.8	09:45	60.7	68.8	09:49	56.7	72.8	09:44	49.4	58.7	09:45	52.9	59
09:46	61.3	75.8	09:46	60.3	72	09:50	55.7	70.3	09:45	57.8	72.4	09:46	52.2	57

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
09:47	62	75.4	09:47	59	66.9	09:51	78.3	89.6	09:46	52.3	63	09:47	50.3	55
09:48	61.2	70.8	09:48	62.6	72.4	09:52	57.1	73.7	09:47	58	69.8	09:48	51.5	62.4
09:49	60.2	72	09:49	61.9	69.3	09:54	52.9	68.8	09:48	48.5	62.5	09:49	53.9	66.1
09:50	62.6	72.9	09:50	61.8	71.9	09:55	59	70.7	09:49	63.9	74.8	09:50	52.8	59.4
09:51	71.4	85	09:51	62.2	70.9	09:56	60.1	74.1	09:50	51.5	65.9	09:51	53.8	62.5
09:52	60.8	69.7	09:52	70.4	82.6	09:57	56.3	78	09:51	52.4	63.2	09:52	52.2	57.3
09:53	73.1	90.6	09:53	72.3	88	09:58	56.2	74.6	09:52	71.7	82.4	09:53	60.2	75.4
09:54	67	81.7	09:54	61.2	68.7	09:59	52.6	70.9	09:53	51.8	64.3	09:54	51.9	61.5
09:55	59.8	69	09:55	66.1	79.1	10:00	68.8	80.4	09:54	50.1	65.5	09:55	60.4	76.6
09:56	60	69.9	09:56	60.4	68.2	10:01	62.4	73.1	09:55	57.5	70.4	09:56	53.5	62.5
09:57	62.3	71.8	09:57	62	70.9	10:02	61.2	75.8	09:56	55.1	70.6	09:57	50.2	54.3
09:58	62.9	74.2	09:58	62.3	71.2	10:03	59.4	70.1	09:57	52.1	73.1	09:58	53.1	60.7
09:59	61.4	81.5	09:59	61.7	79.5	10:04	59.6	69.7	09:58	53.1	65.1	09:59	52	64.7
10:00	61.6	73.9	10:01	62.6	74.5	10:05	51.9	63.9	10:00	48.3	56.7	10:00	50.3	54.1
10:01	59.6	70.8	10:02	58	65.8	10:06	48.9	63.9	10:01	66.9	78.3	10:01	52.4	56.3
10:02	65.7	78.7	10:03	65.9	78.5	10:07	49.5	64.7	10:02	59.8	68	10:02	53.1	58
10:03	61.6	69.1	10:04	62	67.9	10:08	50	63.8	10:03	60.5	74	10:04	55.1	64.9
10:04	66.1	78.3	10:05	65.9	79.2	10:09	54.6	64.5	10:04	56.5	68.2	10:05	58	69.8
10:05	61	68.9	10:06	59.9	66.9	10:10	51.1	63.9	10:05	58.6	68.7	10:06	55.9	61.6
10:06	63	73.3	10:07	63.6	72.2	10:11	59.8	68	10:06	50.5	63	10:07	52.5	58.4
10:08	65	79.9	10:08	64.1	77.4	10:12	57.1	74.3	10:07	47.6	58.7	10:08	52.1	59.3
10:09	63.3	80.2	10:09	61.8	69.5	10:13	57.6	69.5	10:08	47	59.3	10:09	53.1	61.8
10:10	61.5	71.8	10:10	61	77.6	10:15	51.8	68.2	10:09	47.8	58.4	10:10	53.7	61.2
10:11	60.4	69.6	10:11	61.5	71.1	10:16	57.9	71.9	10:10	52.3	61.1	10:11	55.1	60
10:12	59	63.9	10:12	58.7	65.1	10:17	49.5	57.8	10:11	45.9	57.9	10:12	53.2	58
10:13	78.8	93.7	10:13	73.4	88	10:18	70.5	83	10:12	58.8	67.4	10:13	53.9	61.3
10:14	58.9	66.5	10:14	58.3	68	10:19	69.8	83.7	10:13	51.5	65	10:14	54.5	65.8
10:15	64.3	76	10:15	63.4	72.1	10:20	62.8	74.9	10:14	53.5	72.8	10:15	56.3	70.1

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
10:16	63.4	72.7	10:16	63.2	76.3	10:21	49.1	55.2	10:15	55.4	73	10:16	59.2	75
10:17	65.5	79	10:17	65.6	77.2	10:22	64.5	76.1	10:16	55.9	69.2	10:17	64.6	80.5
10:18	63.3	75.3	10:18	63.2	73.3	10:23	48.9	58.4	10:17	48.1	57.1	10:18	55.3	65.2
10:19	62	70	10:19	62.5	68.3	10:24	47.6	51.6	10:18	67.9	79.6	10:19	54.6	66.9
10:20	64	74.5	10:20	63	71.2	10:25	48.8	55.7	10:19	61	78.2	10:20	54.8	57.8
10:21	70.1	84.9	10:21	68.9	81.7	10:26	49.1	57.4	10:20	67.2	82	10:21	55.3	59.9
10:22	61	68.8	10:22	61.1	67.3	10:27	47.6	53	10:21	47.7	53	10:22	52.3	57.9
10:23	61.4	68	10:23	60.9	67.7	10:28	51.3	60.8	10:22	62.6	73.8	10:23	57	65.1
10:24	67	79.8	10:24	67.2	79.9	10:29	56.5	69.7	10:23	46.6	51.3	10:24	53.3	58.4
10:25	59	67.1	10:25	61.3	71	10:30	51.3	61.2	10:24	46.6	53.4	10:25	57.4	68.5
10:26	66.2	78.3	10:27	66.3	77.4	10:31	43.4	47.8	10:26	45.3	51.2	10:26	52.5	60.8
10:27	63.9	77	10:28	64.3	78	10:32	64.6	78	10:27	49.6	58.4	10:27	53.5	60.3
10:28	63.4	79	10:29	63	77.8	10:33	49.2	72.5	10:28	46.3	53.7	10:28	54.8	65
10:29	61.4	72.9	10:30	62.7	73.4	10:34	60.7	71.7	10:29	47.5	57	10:30	50.1	58
10:30	63.3	75.1	10:31	63.1	74.9	10:36	57.3	73.4	10:30	53.4	68.8	10:31	54.3	63.8
10:31	62.5	72.8	10:32	62.5	70.7	10:37	59.7	71.4	10:31	51.7	58.8	10:32	49.8	54.2
10:33	60.5	72.8	10:33	60.7	70.2	10:38	46.5	63.9	10:32	43.3	46.6	10:33	53.6	60.6
10:34	63.3	73.2	10:34	62.8	70	10:39	66.6	77.2	10:33	62.9	73.9	10:34	53.1	58.5
10:35	55.6	63.5	10:35	54.6	62.6	10:40	57	62.8	10:34	45.8	62.8	10:35	53.6	60.5
10:36	62.3	69.5	10:36	61.5	67.1	10:41	57.6	67.5	10:35	58.8	70.1	10:36	55.4	65.3
10:37	65.9	81	10:37	62.2	72.7	10:42	46.1	53.7	10:36	49.3	64.3	10:37	52.1	56.1
10:38	63.3	71.8	10:38	66.5	81.8	10:43	57.3	71.7	10:37	60.2	69.5	10:38	54.5	61.3
10:39	60.1	69.4	10:39	60.4	67.6	10:44	63.4	75.8	10:38	45.9	63.8	10:39	55.8	73.2
10:40	65.4	79.5	10:40	60.6	68.9	10:45	65.2	74.3	10:39	55	67.3	10:40	53.8	57.4
10:41	64.4	74	10:41	67.7	78.5	10:46	53	68.2	10:40	64.7	75.4	10:41	53.4	58.5
10:42	65.2	75.2	10:42	63.4	71.6	10:47	57.5	69.6	10:41	51.3	56.2	10:42	61.3	74.5
10:43	63.1	73.4	10:43	65.4	73	10:48	58.2	64.1	10:42	52.5	65.4	10:43	55.9	63.8
10:44	65.3	76	10:44	64.9	73.6	10:49	58.2	68.3	10:43	48	64.4	10:44	52.7	58

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
10:45	60.9	70.3	10:45	60.2	69.4	10:50	63.4	74.1	10:44	62.9	71.8	10:45	54.8	63.2
10:46	63.4	72.5	10:46	63.6	71.5	10:51	53	68.3	10:45	61.7	73.9	10:46	52.7	59.6
10:47	63.2	72.8	10:47	62.8	74.1	10:52	57.4	66.8	10:46	59.9	70.6	10:47	52.4	59.5
10:48	68.7	81	10:48	68.3	77.9	10:53	61.7	72.2	10:47	51.4	61.8	10:48	53.3	57.2
10:49	59.7	74.5	10:49	62.9	71.5	10:54	53.5	67.1	10:48	50.5	60.5	10:49	55.5	62.1
10:50	64.5	73.4	10:50	60.7	70.7	10:55	53.6	64.6	10:49	55.4	63.4	10:50	53.6	60.1
10:51	62.3	73.1	10:51	64.3	70.9	10:56	46.4	59.5	10:50	53.4	65.7	10:51	53.5	59.6
10:52	64.2	74.3	10:52	65.1	76.1	10:58	62.7	75.6	10:51	60.7	72.4	10:52	54.3	59.4
10:53	60.3	73	10:54	62	72.8	10:59	70.7	87	10:53	49	61	10:53	53.1	60.1
10:54	62.5	70.4	10:55	62.3	70.5	11:00	47.2	59.5	10:54	57.9	69.2	10:54	54	69.2
10:55	65.3	83.6	10:56	65.4	81.4	11:01	63.6	74.4	10:55	55.2	69.3	10:55	53.6	60.5
10:56	60	74.9	10:57	58.9	73	11:02	61.2	76.2	10:56	48.8	59.6	10:57	54.8	62.1
10:57	62.2	73.1	10:58	61.1	71	11:03	53.2	63.6	10:57	47.8	57.2	10:58	50.8	58
10:58	60.4	70.1	10:59	60.9	69.6	11:04	59.7	72.9	10:58	61.1	74.2	10:59	51.4	59.3
11:00	55.4	65.2	11:00	57.7	67.2	11:05	62.2	72.6	10:59	48	64.4	11:00	53.2	60.8
11:01	58.1	67	11:01	57.3	65	11:06	58.2	71.6	11:00	63.8	79.7	11:01	50.1	57.4
11:02	65.3	75	11:02	64.6	74.8	11:07	49.7	62.8	11:01	47.7	65.7	11:02	51	59
11:03	64.6	80.3	11:03	64.9	77	11:08	77.2	88.8	11:02	62.3	73	11:03	57.4	71.9
11:04	63.8	76.2	11:04	64.2	73.3	11:09	56.7	71.6	11:03	54.2	70.4	11:04	68.6	82.1
11:05	60.1	71.3	11:05	60.7	67.9	11:10	60.6	71	11:04	54.2	67	11:05	54.5	62.3
11:06	63.1	70.8	11:06	60.3	68.2	11:11	69.8	81.2	11:05	52.9	66.2	11:06	53.6	60
11:07	60	68.4	11:07	62.7	69.9	11:12	51.2	65.7	11:06	61.4	73.5	11:07	51.4	58.1
11:08	60.2	71.7	11:08	60.9	68.7	11:13	59.1	66.8	11:07	51.2	61.3	11:08	51.5	61.2
11:09	60.5	71.7	11:09	59.8	69.1	11:14	59.6	74.3	11:08	45.2	56.1	11:09	52.1	57
11:10	67.5	79.2	11:10	64.7	76.5	11:15	75.2	83.8	11:09	70.2	81.1	11:10	53.3	61
11:11	68.9	84.8	11:11	63.6	76	11:16	70.6	81.6	11:10	54.3	65.6	11:11	60.1	67.2
11:12	61.6	72.8	11:12	68.5	82.6	11:17	71.2	77.5	11:11	54.2	69.4	11:12	52.1	60.7
11:13	67.9	79.9	11:13	65.9	76.9	11:19	75.8	83.2	11:12	68	78.7	11:13	57.4	65.9

Flat 4 Balcony			Flat 8 Balcony			Flat 9 Balcony			Flat 19 Balcony			House 2 Balcony		
21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax	21/6/16	Laeq	LAFmax
11:14	58.6	68	11:14	62.1	71.2	11:20	64.6	77.1	11:13	50	59.8	11:14	50.8	56.9
11:15	59.2	66.3	11:15	61.4	68	11:21	69.1	78.8	11:14	54.3	63.6	11:15	54.7	62.6
11:16	69.4	80.5	11:16	68.7	79.6	11:22	73.9	83.2	11:15	59.9	71.6	11:16	57.2	66.4
11:17	64	74.6	11:17	62.8	71.5	11:23	57.8	68.7	11:16	69.3	77.7	11:17	55.5	62.4
11:18	64	80.3	11:18	63.5	77.8	11:24	61.3	73.4	11:17	61	74.4	11:18	53.9	60.7
11:19	64.3	75.7	11:19	64.2	72.6	11:25	57.4	73.5	11:18	66.6	72.8	11:19	51.7	60.5
11:20	64.7	74.4	11:20	62.5	70.2	11:26	63.4	73.8	11:19	71.3	81.2	11:20	53.2	58.1
11:21	61.4	69	11:22	64.4	72.3	11:27	62.8	70.4	11:21	55.2	66.7	11:21	56.4	62.3
11:22	61.9	74.8	11:23	60.8	69.5	11:28	47.6	57.9	11:22	65.9	74.9	11:23	53.6	59.9
11:23	64.6	74.9	11:24	67.3	77.9	11:29	61.8	72.4	11:23	66.7	76.7	11:24	52.7	57.4
11:24	63.1	73.4	11:25	63.8	72.4	11:30	55.4	69	11:24	60.2	72.4	11:25	55.8	65.5
11:26	61.6	74.3	11:26	59.2	66.8	11:31	62.5	77.8	11:25	51.2	65	11:26	53.7	63.8
11:27	59.5	72	11:27	61.2	71.7	11:32	55.6	69.4	11:26	60.8	72.5	11:27	49.4	56
11:28	62	72.7	11:28	59.8	70.2	11:33	66.4	78.7	11:27	51.3	66.6	11:28	52.9	57.7
11:29	62.6	69.9	11:29	63.9	73.1	11:34	65.9	85.2	11:28	62.2	70.1	11:29	50.9	58.1
11:30	62.9	71.8	11:30	61.6	70.3	11:35	64.6	73.8	11:29	46.7	59.8	11:30	52.7	58

## Appendix D - Noise Measurement Details

### D1. Location of Survey

163 Iverson Road, West Hampstead, London

### D2. Date & Time of Survey

Internal measurements - Wednesday 8 June 2016, 12:00 - Tuesday 14 June 2016, 12:00

External measurements - Tuesday 21 June 2016, 17:00 - Wednesday 22 June 2016, 10:00

### D3. Personnel Present During Survey

Alice Rushton (SRL)

### D4. Weather Conditions during Survey

Internal measurements - dry throughout the survey, low wind

External measurements - no rain, slightly wet roads, low wind

### D5. Instrumentation

Noise Loggers: 7x Nor-140 sound level meters, on hire from Campbell Associates. Serial #s:

1402790, 1403345, 1404079, 1404080, 1404089, 1404090, 1406178.

Nor-1251 calibrator. Serial #: 31056

### D6. Calibration Procedure

Before and after the survey the measurement apparatus was check calibrated to an accuracy of  $\pm 0.3$  dB using the calibrator. The calibrator produces a sound pressure level of 93.8 dB re  $2 \times 10^{-5}$  Pa at a frequency of 1 kHz.