



ALLAWAY ACOUSTICS
LIMITED

Our Ref: 21089C/MF100

Client: Mr & Mrs Katz, 72 Maresfield Gardens, London, NW3 4TP

Project: 42 Netherhall Gardens, London, NW3 0TD

**Existing Environmental
Noise Levels**

Date of Survey: 30th April 2007 to 1st May 2007

Prepared By: Chris Swiejkowski

Checked by: Chris Williams BSc (Hons) MIOA



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42 Netherhall Gardens, NW3 0TD Existing Environmental Noise Levels

1. Introduction

- 1.1 Prior to the installation of new building services plant at this site, we have carried out an environmental noise survey to establish the existing minimum background noise levels.
- 1.2 This report describes the survey and details the results obtained.
- 1.3 On the basis of the survey results, a target noise level will be determined for the proposed future plant.

2. Site Description

- 2.1 The site is located at 42 Netherhall Gardens NW2.
- 2.2 New plant is to be located on the Netherhall Gardens boundary of the property (see Schneider Designers drawing number AR-03 Rev 18).
- 2.3 The nearest affected residential property is at 72 Maresfield Gardens. The closest affected window is approximately 20m from the plant location.
- 2.4 The plant will have the capability to operate 24hours a day.



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3. Survey

- 3.1 The survey was carried out between the hours of 10am on Monday 30th April and 11am on Tuesday 1st May 2005.
- 3.2 The weather during the daytime survey period was warm with occasional winds and no rain. This was deemed not to have any significant effect on the measured noise levels.
- 3.3 To the best of our knowledge there were no roadworks or other unusual influences on traffic flow within the vicinity.
- 3.4 Noise levels were measured for consecutive 20-minute periods at ground floor level at a position adjacent to the boundary with 72 Maresfield Gardens.
- 3.5 Of the parameters measured, the LA90 gives the closest representation of the background level, as it is the level exceeded for 90% of the measurement period. The LAEQ is an energy-averaged value, and the LA10 is indicative of traffic noise.
- 3.6 In addition to the A-weighted levels referred to above, representative octave-band spectra were also recorded so that the frequency distribution of the noise could be assessed.

4. Instrumentation

- 4.1 All measurements were obtained using a Norsonic NOR131 Sound Level Meter (s/n 1312779). This instrument conforms to IEC60651 and 60804 Type 1 specifications and to IEC61260 and 61672-1:2002 Class 1 specifications.
- 4.2 Before commencing the readings, the meter was checked for correct calibration with both the internal reference signal and an acoustic calibrator. The calibration was rechecked after the survey with no change noted.
- 4.3 To minimise environmental effects, the microphone was fitted with a windshield at all times.



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5. **Results**

- 5.1 Full details of the results obtained are attached to this Report.
- 5.2 The minimum background (L90) noise level measured was 38dB(A) during the night-time period.

6. **Discussion**

- 6.1 The strictest criterion that the Local Authority may reasonably impose is that plant noise does not increase the existing background.
- 6.2 In order that plant noise does not increase existing noise levels it must be at least 10dB(A) lower than the measured background.
- 6.3 To this end, we would recommend that a limit of 28dB(A) be set as the plant noise limit. This limit should apply to the position outside the nearest affected residential windows (approx. 20m from plant location).
- 6.4 Suppression of any tonal components from the plant is also important, as this can increase the potential disturbance.

Prepared by:

Chris Swiejkowski

12 May 2009

Checked by:

Chris Williams BSc (Hons) MIOA



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SCHEDULE OF RESULTS

Date of Survey: 30th April & 1st May 2007

RE: 42 Netherhall Gardens

Table 1. Leq

Time	Octave Band Centre Frequency								dB(A)
	63 Hz	125 Hz	250 Hz	500 Hz	1.0 k	2.0 k	4.0 k	8.0 k	
10:20	67.7	64.5	66.5	60.3	60.6	56.9	54.2	49.1	65.1
10:40	59.7	52.7	49.7	47.9	48.7	44.5	41.3	33.7	52.4
11:00	56.9	49.1	46.6	43.5	41.8	37.5	33.3	28.8	46.5
11:20	59.3	57.1	57.1	52.3	48.1	41.6	33.8	27.9	53.8
11:40	58.8	51.4	50.0	47.0	46.6	42.0	34.1	30.0	50.5
12:00	58.0	51.2	49.2	47.4	46.2	40.1	34.2	29.4	50.0
12:20	57.2	52.3	48.6	46.2	43.4	37.0	34.3	29.0	48.2
12:40	64.5	55.2	53.9	50.1	45.0	39.3	41.4	33.4	51.8
13:00	58.4	53.8	52.8	50.0	46.0	39.3	35.1	30.4	51.2
13:20	59.1	51.9	50.0	48.5	47.1	42.6	38.1	33.2	51.4
13:40	54.4	47.6	46.5	46.1	45.7	40.6	37.4	32.6	49.4
14:00	58.6	54.3	52.8	49.3	44.1	37.5	32.9	27.5	50.3
14:20	57.1	50.0	48.5	44.6	41.8	36.8	33.3	28.1	47.0
14:40	57.9	49.3	47.6	46.7	45.8	39.4	34.0	26.4	49.3
15:00	57.0	50.9	47.3	44.8	42.2	37.7	33.9	27.8	47.2
15:20	61.6	54.6	51.7	47.1	43.1	38.7	34.3	28.0	49.3
15:40	62.9	50.1	46.2	43.2	42.4	39.0	35.2	29.5	47.2
16:00	60.7	51.3	46.7	42.8	41.7	38.8	34.9	29.7	47.0
16:20	61.7	52.8	48.9	44.1	43.0	38.9	35.4	29.6	48.1
16:40	59.0	49.3	45.6	43.4	43.9	38.9	34.8	27.9	47.6
17:00	60.0	51.2	46.5	42.9	41.6	41.1	44.6	31.9	49.4
17:20	57.0	48.1	45.0	44.2	42.6	38.3	40.8	32.9	48.0
17:40	56.5	47.8	44.5	41.9	41.0	36.2	33.1	28.2	45.3
18:00	53.7	47.8	44.9	43.4	43.4	36.2	31.7	26.5	46.6
18:20	56.6	49.0	45.4	43.0	42.7	38.7	34.9	29.3	46.9
18:40	59.7	54.3	51.4	46.5	44.3	39.9	33.9	28.7	49.5
19:00	60.4	49.5	46.0	44.9	45.2	40.3	35.6	29.7	48.9
19:20	54.9	48.5	45.8	43.1	41.1	37.1	40.3	33.6	47.1
19:40	58.5	53.8	50.8	47.6	45.3	37.8	35.2	27.9	49.8
20:00	55.1	48.7	44.5	41.3	40.1	33.4	30.8	25.6	44.3
20:20	55.4	47.5	44.0	42.7	43.1	33.3	30.3	23.4	45.8
20:40	59.2	53.8	52.6	49.8	46.8	40.8	39.8	32.0	51.8
21:00	52.8	45.9	43.3	38.7	36.9	30.3	24.5	19.2	41.4



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Table 1. Leq - continued...

21:20	53.6	48.6	45.7	39.0	36.5	28.6	21.1	16.1	42.0
21:40	55.1	51.0	50.5	44.7	38.4	31.9	25.0	19.3	46.0
22:00	57.5	50.5	47.0	40.8	37.8	31.8	26.1	19.9	43.7
22:20	55.0	48.1	45.6	40.4	38.1	32.7	29.8	25.9	43.4
22:40	58.9	57.0	55.9	49.8	40.9	31.6	27.0	21.9	50.7
23:00	54.9	50.7	49.1	44.1	37.7	30.0	25.6	20.6	45.1
23:20	61.8	60.6	58.9	53.7	46.6	34.7	24.0	18.5	54.4
23:40	55.1	47.6	45.6	39.9	36.8	30.3	26.4	21.3	42.4
00:00	53.0	46.9	44.9	39.2	36.0	28.2	23.2	18.8	41.5
00:20	53.4	51.0	46.5	40.4	35.3	27.8	23.9	18.9	42.5
00:40	53.5	47.1	45.2	39.9	35.3	28.3	24.2	19.0	41.6
01:00	51.6	46.5	45.0	39.8	35.7	27.8	24.3	19.6	41.5
01:20	50.9	46.2	44.7	39.4	34.8	28.0	25.1	20.1	41.1
01:40	50.5	45.9	44.4	39.3	34.7	27.1	23.7	18.7	40.8
02:00	51.0	47.6	44.9	39.5	35.3	28.6	25.1	19.8	41.4
02:20	50.0	45.5	44.0	38.7	34.8	28.2	25.0	19.9	40.6
02:40	49.3	44.7	43.0	38.0	34.0	26.9	23.4	18.8	39.8
03:00	49.3	44.5	43.2	38.1	33.5	26.5	24.1	19.7	39.7
03:20	49.2	44.6	43.7	38.5	33.3	26.1	23.5	18.6	39.9
03:40	50.2	45.0	43.8	38.8	34.8	32.4	32.3	28.6	41.8
04:00	49.7	45.4	43.9	38.7	33.8	26.4	24.3	18.9	40.2
04:20	50.1	45.2	43.8	38.8	33.7	29.2	33.8	24.4	41.4
04:40	51.0	45.7	44.5	39.2	34.5	39.7	42.3	36.9	46.9
05:00	50.5	46.6	44.1	39.1	34.2	36.5	45.5	41.4	48.6
05:20	55.7	46.3	45.0	39.6	35.3	29.8	43.8	36.9	46.7
05:40	53.2	48.0	46.4	41.5	37.5	31.7	31.9	26.0	43.6
06:00	54.3	47.8	46.3	41.6	38.1	29.9	32.5	26.1	43.8
06:20	58.1	49.1	47.5	42.7	39.9	34.5	39.1	34.2	46.4
06:40	56.1	50.0	48.3	43.5	40.5	32.6	31.9	26.7	45.7
07:00	56.3	50.7	48.6	44.0	42.1	34.8	35.2	28.2	46.8
07:20	57.2	51.7	49.2	44.8	41.8	35.0	38.7	33.5	47.6
07:40	60.1	50.9	48.2	44.1	41.8	36.3	32.0	25.0	46.7
08:00	59.1	51.6	48.3	44.4	42.4	38.1	32.8	27.8	47.3
08:20	59.7	53.1	52.2	48.7	45.9	40.8	42.0	38.1	51.5
08:40	62.8	50.3	45.9	43.4	44.2	40.2	53.3	51.3	56.5
09:00	58.4	52.7	49.9	46.5	44.7	39.7	39.8	31.6	49.7
09:20	59.4	55.6	49.4	44.2	42.0	37.8	33.1	25.9	47.8
09:40	55.2	47.8	45.2	45.1	42.4	36.6	44.5	40.9	49.6



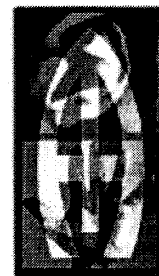
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Table 1. Leq - continued...

10:00	58.1	51.1	46.3	45.1	43.4	40.3	36.9	31.1	48.4
10:20	60.3	56.2	54.2	51.4	44.0	37.0	32.8	28.2	51.5
10:40	58.8	50.1	48.5	47.3	45.5	42.5	35.8	30.7	50.2
11:00	55.5	49.2	46.7	44.7	42.3	37.7	34.7	29.5	47.2
11:20	58.6	52.6	51.5	45.9	42.4	37.4	34.8	28.7	48.4
11:40	58.2	50.2	46.9	45.1	45.2	42.9	39.5	36.0	50.8

Table 2. L10

Time	Octave Band Centre Frequency								dB(A)
	63 Hz	125 Hz	250 Hz	500 Hz	1.0 k	2.0 k	4.0 k	8.0 k	
10:20	72.0	68.3	70.5	63.0	60.1	59.5	57.6	52.5	67.1
10:40	60.5	55.9	50.4	51.2	50.2	47.6	45.1	37.7	55.6
11:00	58.3	51.3	48.6	45.6	44.0	39.6	35.9	31.7	48.7
11:20	60.4	53.1	52.3	46.8	47.3	43.1	36.4	31.4	52.7
11:40	60.5	53.0	50.3	46.4	46.7	42.7	37.0	32.4	51.9
12:00	59.6	53.3	51.4	49.0	46.4	41.5	37.5	32.9	51.3
12:20	59.2	51.9	49.8	46.2	43.8	39.3	36.1	31.1	48.9
12:40	64.6	57.0	54.1	50.0	47.2	42.3	40.1	33.5	54.4
13:00	61.8	56.4	53.9	50.9	47.4	42.0	38.1	33.1	53.1
13:20	60.7	54.7	51.0	48.2	46.3	41.8	39.1	34.0	51.4
13:40	56.4	49.9	49.1	48.4	46.4	42.3	40.4	36.5	51.2
14:00	60.2	54.8	52.5	47.8	45.0	40.6	36.2	30.7	50.2
14:20	59.6	51.9	49.2	45.5	43.8	39.3	36.3	31.1	48.7
14:40	59.8	52.1	49.2	47.5	44.9	39.4	37.5	29.8	49.9
15:00	58.9	53.1	49.2	46.1	44.7	40.3	37.2	30.5	49.6
15:20	64.7	56.0	50.4	46.1	45.3	41.4	37.4	31.0	50.3
15:40	63.8	52.6	48.2	45.5	45.1	41.7	38.3	31.9	49.6
16:00	63.8	53.1	47.7	44.8	44.1	41.6	38.1	31.7	49.4
16:20	64.1	55.9	51.4	46.7	45.4	42.1	38.8	33.0	51.0
16:40	60.5	52.5	47.7	45.5	45.9	41.5	38.4	31.7	50.1
17:00	61.6	53.2	48.6	45.3	44.3	40.6	37.2	31.2	49.1
17:20	59.3	49.7	46.7	44.7	44.4	39.9	37.9	32.9	49.5
17:40	57.6	50.1	46.8	44.3	43.4	39.0	35.7	30.5	47.8
18:00	55.4	49.8	46.8	44.9	43.9	39.0	35.3	29.7	48.2
18:20	57.5	50.5	47.6	45.2	45.2	41.9	38.4	32.9	49.7
18:40	62.7	56.1	51.9	47.9	46.2	41.7	37.3	31.9	52.5



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Table 2. L10 – continued...

19:00	62.1	52.3	48.4	46.8	47.5	43.5	38.6	33.4	51.6
19:20	57.1	51.2	47.9	44.9	43.3	39.1	38.5	32.3	48.9
19:40	59.3	51.0	48.0	45.2	44.2	38.4	38.9	31.1	49.1
20:00	56.5	50.7	46.3	43.5	42.6	36.3	32.8	27.3	46.8
20:20	55.6	49.6	45.9	44.2	43.4	36.0	32.4	25.3	47.3
20:40	59.1	53.9	52.5	50.6	47.9	42.6	43.9	34.4	53.9
21:00	55.0	47.5	44.5	40.7	39.8	32.9	27.2	21.6	43.7
21:20	55.9	51.0	46.4	41.0	39.2	31.2	24.2	18.8	44.1
21:40	57.5	51.5	48.3	42.3	40.8	33.4	28.2	21.7	45.7
22:00	57.3	50.6	46.8	41.7	40.2	33.9	28.5	22.3	45.2
22:20	56.5	49.6	47.0	42.1	40.5	34.9	32.0	26.7	45.1
22:40	62.0	58.4	55.1	47.2	42.5	34.4	30.6	25.5	50.1
23:00	56.9	51.1	47.6	41.9	39.9	32.9	29.1	24.4	44.6
23:20	61.1	55.5	50.8	44.7	40.5	33.1	26.5	21.2	47.2
23:40	56.6	48.8	46.8	41.3	39.3	32.7	29.2	24.0	44.0
00:00	54.8	48.1	46.1	40.7	38.8	31.0	26.5	21.6	43.2
00:20	54.7	49.8	46.3	40.8	37.8	30.7	26.9	21.8	43.1
00:40	54.9	48.2	46.3	41.5	37.7	30.8	27.2	22.1	43.0
01:00	53.5	48.0	46.3	41.2	38.1	30.5	26.8	21.9	43.0
01:20	52.9	47.7	46.1	40.8	36.8	30.9	28.5	23.7	42.6
01:40	52.5	47.3	45.8	40.7	36.9	30.0	26.9	21.6	42.2
02:00	53.4	49.6	46.4	40.8	37.5	31.0	27.7	22.9	43.2
02:20	52.2	47.1	45.6	40.3	37.1	31.1	28.5	23.5	42.4
02:40	51.3	46.2	44.2	39.4	36.3	29.7	26.6	21.7	41.2
03:00	51.2	45.9	44.5	39.4	35.3	29.9	27.8	23.3	41.2
03:20	51.2	46.1	45.1	39.8	35.1	29.2	26.7	21.8	41.3
03:40	51.6	46.4	45.1	39.9	36.5	31.7	30.5	25.8	42.3
04:00	51.6	47.0	45.3	40.0	35.7	29.4	27.2	21.8	41.5
04:20	51.9	46.7	45.1	40.0	35.4	31.4	34.8	24.3	43.1
04:40	51.9	47.5	46.2	40.7	36.5	44.2	44.6	32.2	49.3
05:00	52.8	48.5	45.6	40.5	36.0	39.8	48.8	43.2	51.4
05:20	53.3	47.8	46.6	41.1	37.4	32.0	48.9	41.1	51.1
05:40	55.3	49.7	47.8	43.0	39.5	32.2	35.9	30.5	45.1
06:00	56.4	49.1	47.6	43.0	40.7	32.5	35.3	29.6	45.4
06:20	57.4	50.5	48.8	44.0	42.1	35.1	40.3	31.5	48.2



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Table 2. L10 – continued...

06:40	58.0	51.5	49.7	45.0	42.8	35.0	34.2	28.9	47.2
07:00	57.9	52.3	50.3	45.5	43.8	36.9	37.8	31.0	48.7
07:20	59.2	53.2	50.6	45.9	43.9	37.5	38.3	33.5	49.5
07:40	59.6	52.3	49.6	45.6	43.9	38.1	34.5	28.2	48.5
08:00	60.8	53.0	49.7	45.9	44.7	39.6	35.5	30.7	49.1
08:20	62.1	52.1	49.7	45.8	44.0	38.9	40.1	33.9	49.9
08:40	66.1	52.3	47.7	45.7	45.2	42.2	43.1	36.1	51.4
09:00	61.5	54.7	51.6	47.2	44.0	38.8	39.9	32.1	50.8
09:20	61.4	58.4	51.4	46.3	43.9	39.2	34.3	27.5	49.9
09:40	57.1	49.9	47.1	47.6	44.8	38.5	41.5	35.9	50.0
10:00	60.0	52.8	48.6	47.4	45.5	42.6	38.8	32.7	50.5
10:20	60.9	52.7	48.3	49.2	44.2	39.3	35.9	31.5	49.7
10:40	58.5	52.7	50.2	49.7	45.5	42.1	39.1	33.5	51.6
11:00	57.6	51.6	49.0	47.3	44.6	40.3	38.1	33.2	49.4
11:20	61.3	53.7	50.9	46.6	44.7	40.2	37.5	31.8	49.9
11:40	59.6	51.8	49.0	45.9	44.9	41.6	39.0	34.6	49.9

Table 3. L90

Time	Octave Band Centre Frequency								dB(A)
	63 Hz	125 Hz	250 Hz	500 Hz	1.0 k	2.0 k	4.0 k	8.0 k	
10:20	54.9	49.5	46.7	46.5	46.9	42.9	40.2	33.3	54.1
10:40	51.6	45.5	42.5	39.4	38.1	32.7	26.1	18.8	43.1
11:00	52.0	45.7	43.1	39.9	38.2	32.1	24.6	17.4	42.9
11:20	51.6	45.8	43.0	40.1	38.6	32.8	25.7	18.4	43.4
11:40	52.2	45.8	43.3	40.1	38.2	32.3	25.4	17.9	43.4
12:00	51.3	45.2	42.9	40.2	38.9	33.1	26.6	19.2	43.5
12:20	50.4	44.6	42.2	39.5	37.7	32.1	25.9	18.7	42.5
12:40	49.9	43.6	41.6	39.0	37.7	32.1	25.0	17.8	42.3
13:00	50.7	44.7	42.5	40.3	38.9	33.8	26.7	19.1	43.6
13:20	50.5	44.4	42.4	40.1	39.0	33.9	27.3	19.6	44.0
13:40	49.4	43.6	41.7	39.4	38.0	32.4	26.1	19.6	42.6
14:00	49.3	43.9	42.0	39.6	38.0	31.7	24.4	17.1	42.6
14:20	49.5	43.9	42.2	39.5	37.7	32.2	25.4	18.2	42.5
14:40	49.7	43.4	41.1	38.2	36.5	30.7	24.6	17.1	41.6
15:00	50.0	44.1	42.0	39.2	37.7	31.7	25.2	18.2	42.4
15:20	52.8	45.5	43.0	39.9	38.3	33.4	28.0	20.6	43.8



ALLAWAY ACOUSTICS
LIMITED

Table 3. L90 – continued...

15:40	52.9	45.2	42.8	40.3	38.5	34.1	28.8	20.3	43.9
16:00	51.6	44.8	42.1	39.3	37.5	32.9	27.1	19.5	42.7
16:20	50.8	44.0	41.5	39.1	38.1	32.5	27.1	19.6	42.7
16:40	49.9	43.4	41.1	39.0	37.7	31.9	25.7	18.0	42.4
17:00	50.6	44.5	42.1	39.3	37.2	31.6	26.8	19.7	42.3
17:20	49.7	43.7	41.1	38.6	36.8	30.6	24.5	17.4	41.6
17:40	49.0	43.1	41.0	38.4	36.7	30.2	23.2	15.9	41.1
18:00	48.1	43.1	41.0	38.5	37.0	30.5	24.3	17.0	41.3
18:20	49.3	44.3	42.3	40.0	38.8	32.6	26.1	18.5	43.1
18:40	50.0	43.9	41.6	39.3	37.8	31.7	25.3	17.9	42.3
19:00	50.6	44.4	42.3	39.8	38.0	32.1	25.7	18.1	42.6
19:20	49.9	44.2	42.1	39.2	37.3	31.4	26.1	18.9	42.3
19:40	49.5	43.3	41.0	38.1	36.7	30.1	22.7	15.6	41.2
20:00	49.2	43.6	41.3	37.6	35.5	28.6	19.7	14.9	40.5
20:20	49.2	43.3	41.4	37.6	35.5	28.5	21.0	14.9	40.6
20:40	50.2	44.1	42.2	37.0	34.1	28.8	20.4	14.9	40.6
21:00	49.1	43.6	41.6	36.0	32.3	25.1	16.8	14.8	38.6
21:20	49.7	44.3	42.2	36.2	31.7	23.8	15.7	14.8	38.7
21:40	50.0	44.8	42.7	37.1	33.2	25.7	17.4	14.9	39.7
22:00	50.1	44.6	42.7	37.0	32.4	25.7	17.5	14.9	39.5
22:20	50.4	45.3	43.2	37.6	33.8	27.0	19.5	14.9	40.2
22:40	51.6	46.6	44.3	38.4	33.5	26.1	19.7	14.9	40.9
23:00	51.3	46.5	44.2	38.2	32.7	24.6	18.5	14.9	40.4
23:20	50.9	46.0	44.1	38.2	33.0	24.4	17.9	14.9	40.3
23:40	50.5	45.9	44.1	38.3	33.1	25.6	18.7	14.9	40.5
00:00	50.0	45.3	43.5	37.6	31.7	22.8	17.6	14.9	39.6
00:20	49.6	45.4	43.3	37.7	31.9	22.6	17.4	14.9	39.6
00:40	49.2	45.1	43.5	38.0	32.0	23.3	18.2	14.9	39.7
01:00	48.6	44.7	43.4	38.2	31.9	22.4	17.0	14.9	39.7
01:20	48.0	44.3	43.0	37.8	32.0	23.1	18.4	14.9	39.4
01:40	47.6	44.1	42.7	37.6	31.7	22.4	17.6	14.9	39.1
02:00	47.6	44.0	42.7	37.6	32.4	23.4	19.1	14.9	39.3
02:20	46.8	43.3	42.0	36.8	31.8	23.2	17.8	14.9	38.6
02:40	46.1	42.8	41.4	36.3	30.9	21.3	16.7	14.8	37.9
03:00	46.5	42.8	41.7	36.7	31.2	21.8	17.5	14.9	38.2
03:20	46.2	42.8	41.8	36.7	30.8	21.3	17.3	14.9	38.2



ALLAWAY ACOUSTICS
LIMITED

Table 3. L90 – continued...

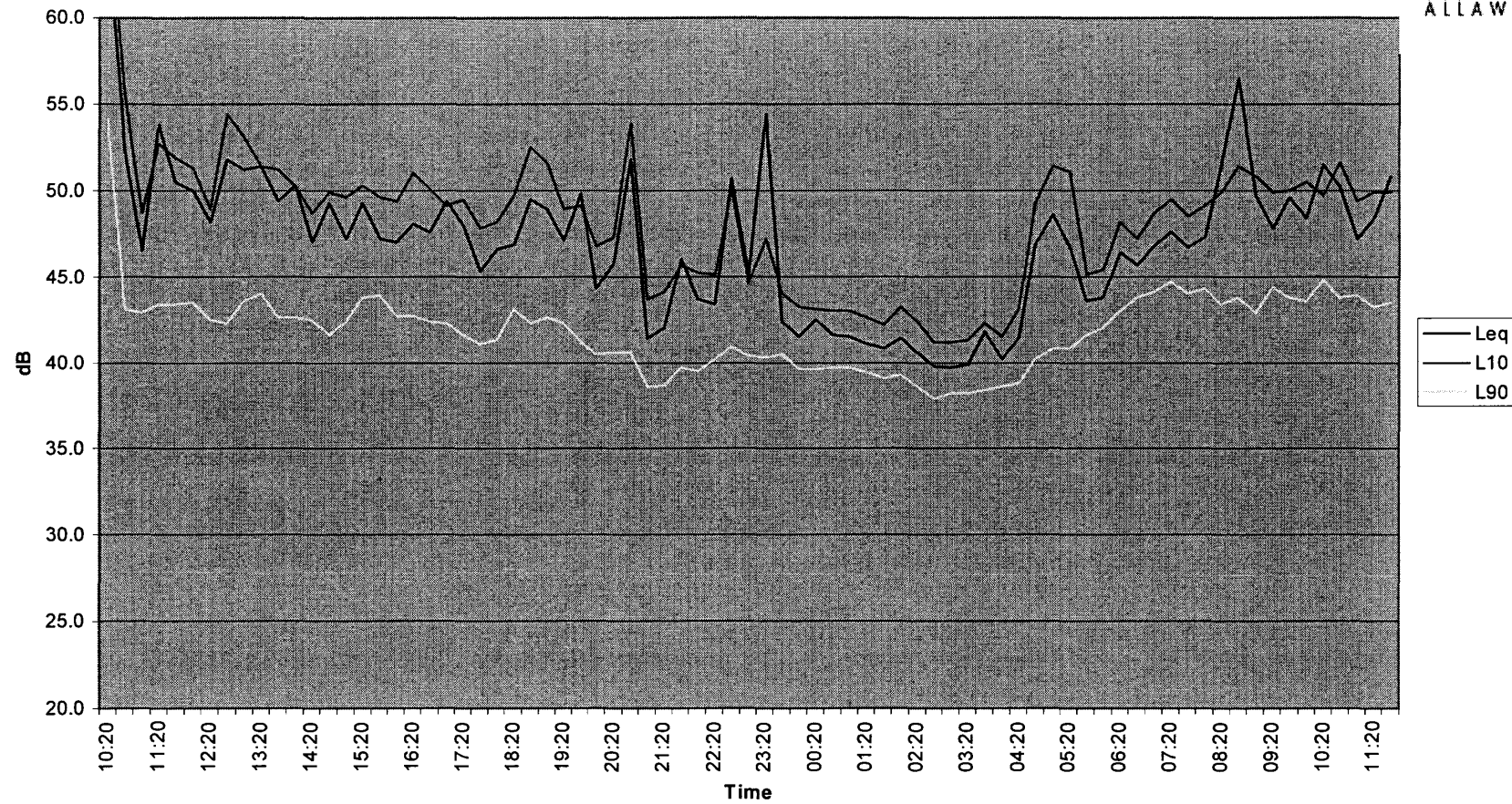
03:40	46.5	43.1	42.1	36.8	30.7	21.5	17.6	14.9	38.4
04:00	46.6	43.4	42.2	37.2	31.0	21.8	17.9	14.9	38.6
04:20	46.8	43.4	42.3	37.3	31.0	21.9	18.6	14.9	38.8
04:40	46.9	43.5	42.4	37.4	31.6	26.5	24.1	15.5	40.2
05:00	47.4	43.7	42.3	37.4	31.9	27.7	28.0	18.9	40.8
05:20	48.0	44.2	43.0	37.8	32.4	24.8	27.4	21.4	40.8
05:40	50.2	45.7	44.4	39.8	34.5	25.4	22.6	16.5	41.6
06:00	51.1	46.2	44.8	40.0	35.2	26.0	22.5	16.4	42.0
06:20	51.8	47.2	45.8	40.9	36.5	27.2	23.6	16.8	43.0
06:40	52.6	47.9	46.5	41.7	37.5	28.5	24.3	17.6	43.8
07:00	52.8	48.4	46.5	41.8	38.1	29.6	23.8	17.0	44.1
07:20	53.3	48.6	46.9	42.4	38.9	31.2	24.8	17.9	44.7
07:40	53.1	48.3	46.0	41.7	38.5	31.2	23.2	16.2	44.0
08:00	53.6	48.5	46.2	41.7	38.7	32.0	25.7	19.4	44.3
08:20	53.6	47.5	45.0	40.3	37.6	31.4	25.8	18.6	43.4
08:40	54.3	46.8	43.6	40.3	38.4	33.4	28.1	20.1	43.8
09:00	51.1	44.9	42.4	39.5	37.8	31.7	25.7	19.5	42.9
09:20	52.0	45.7	43.2	40.6	39.3	33.1	25.9	18.5	44.4
09:40	50.0	44.6	42.5	41.0	38.9	33.1	25.9	17.8	43.8
10:00	49.6	44.3	42.2	40.3	38.7	32.7	25.0	17.4	43.6
10:20	50.2	44.4	42.5	42.8	39.2	33.3	26.4	19.4	44.8
10:40	50.5	45.0	42.7	40.8	39.0	33.1	26.5	19.7	43.8
11:00	50.9	45.3	43.1	40.7	39.0	33.3	26.0	18.7	43.9
11:20	51.5	45.8	43.2	40.0	38.1	32.2	25.6	18.8	43.2
11:40	50.4	44.5	42.8	40.4	38.8	33.1	26.9	19.8	43.5

Notes; All readings sound pressure level dB re: 2×10^{-5} Nm⁻².



ALLAWAY ACOUSTICS
LIMITED

42 Netherhall Gardens - Levels





ALLAWAY ACOUSTICS
LIMITED

ACOUSTIC TERMINOLOGY

DECIBEL (dB) - The Decibel is a logarithmic unit used to express ratios of quantities such as sound pressure level or sound power. The logarithmic nature of the unit means that decibel values cannot be added or subtracted in the usual way.

dBA or LA - The A weighted scale is used to take account of the fact that the human ear is more sensitive to sounds at high frequencies than sounds at low frequencies. "A" weighted sound pressure level (sound level) measurements correspond roughly to the subjective impression of loudness of the average listener.

LAEQ - The LAEQ index is used as a method of averaging temporally or spatially varying sound levels. At a given position, it may be defined as the notional sound level which contains the same amount of acoustical energy as the actual (time varying) sound level over the same measurement period. The LAEQ is gaining acceptance for many types of noise assessment, and is now referred to within BS4142 (used to assess the likelihood of justifiable environmental noise complaints), and also within the Noise at Work Regulations 1989.

LAMAX - The LAMAX is the maximum sound pressure level (sound level) recorded during any given measurement period.

LA10 - The LA10 is the sound level that is exceeded for 10% of the measurement period and is commonly used to describe road traffic noise, since it has been found to correlate reasonably well with complaint thresholds.

LA90 - The LA90 is the sound level that is exceeded for 90% of the measurements period, and is generally considered to describe the background noise, since it inherently excludes the sounds of transient events.