

**259 Kentish Town Road
London**

ENVIRONMENTAL NOISE ASSESSMENT

Acoustics Report M1604/R01
31st March 2016

To: DDC Ltd
77 Elmers End Road
Anerley
London SE20 7UU

By: Paul Smith BSc MIOA

1 Introduction

This acoustic report documents a survey to establish the existing environmental noise levels at the nearest dwellings to 259 Kentish Town Road, London.

The noise survey is required as part of the Construction Management Plan for the proposed redevelopment scheme at the site.

The report is set out in the following sections:

- Section 2: Overview of the development
- Section 3: Environmental noise survey

2 Overview of the development

259 Kentish Town Road, which is currently empty, is a three storey end of terrace brick built building. The proposed scheme is for the demolition of the existing building, with the exception of the front façade which will be retained, and the construction of a commercial and residential use building.

The proposed operating hours of the site are 07:30 – 16:30hrs Monday – Friday.

The facades of the nearest dwellings that will be exposed to the greatest noise emissions from the works are identified in Figure 1 by the pink, yellow, green and orange dashed lines.

The nearest commercial buildings are a three storey office block on Crown Place and a charity shop at ground floor adjacent to 259 Kentish Town Road.

3 Environmental Noise Survey

- **Survey date:** 15th – 16th March 2016
- **Weather:** Dry with wind speeds less than 10mph
- **Monitor locations:** the microphones, attached to poles extended out of windows, were located at; Figure 1
 - Position A: 1m from the Kentish Town Road façade at 2nd floor level
 - Position B: 1m from the rear façade at 1st floor level
- **Equipment:**
 - Position A: Brüel & Kjær Type 2260
 - Position B: Brüel & Kjær Type 2238
- **Monitor configuration:** noise monitors configured to record consecutive 15-minute samples of noise
- **Calibration:** noise monitors calibrated before and after the survey using a Brüel & Kjær Type 4231 calibrator with no deviations found

Tabulated results are given in Table A1, Appendix A. Note that as microphones were 1m from the façades all measurements include façade reflections

The noise levels recorded are considered to be representative to those that will occur at the nearest dwelling facades, namely:

- Position A: on Kentish Town Road; facades indicated by the pink and orange dashed lines in Figure 1
- Position B: adjacent and to the west of the rear of 259 Kentish Town Road; facades indicated by dashed yellow and green lines in Figure 1

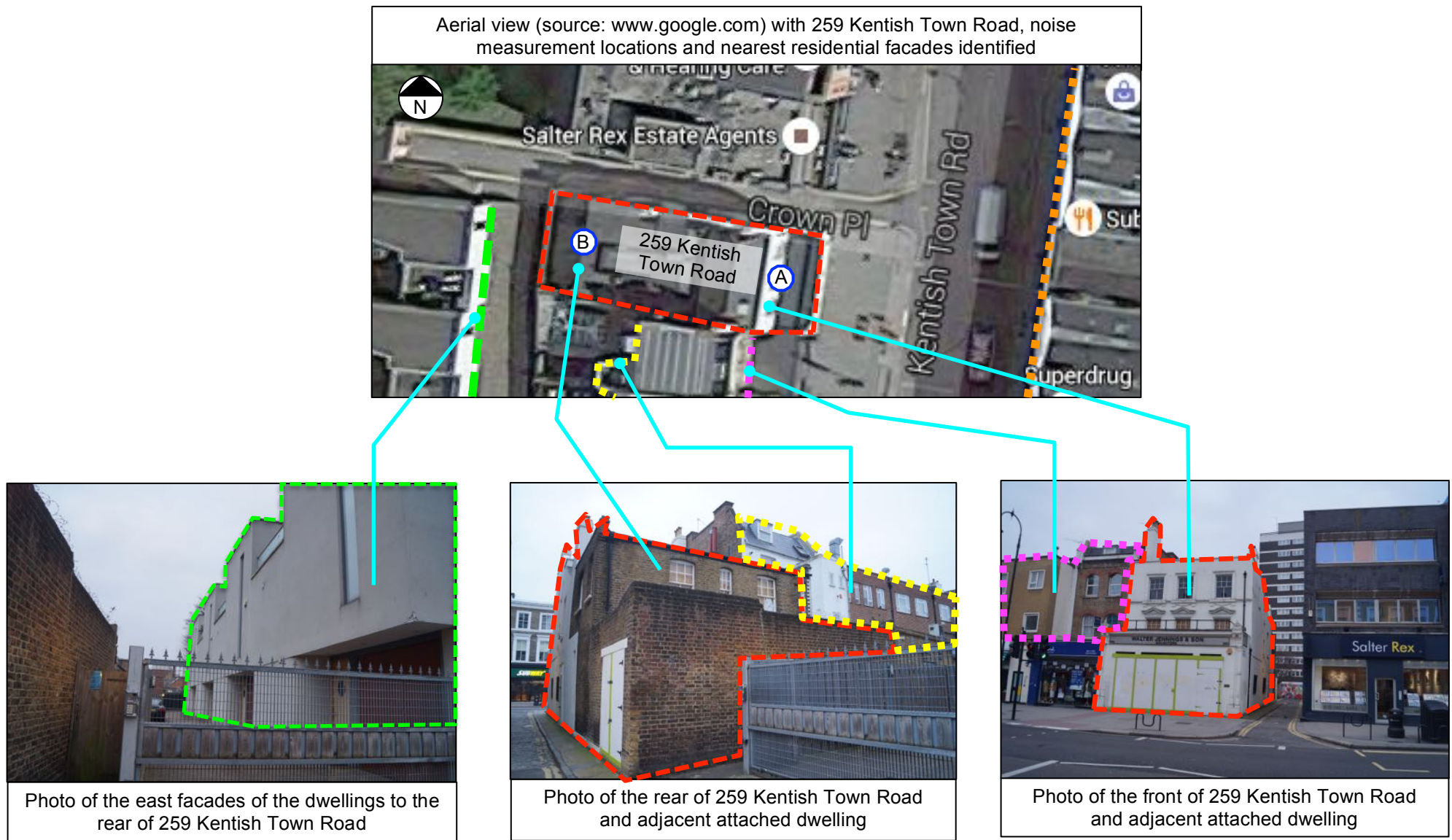


Figure 1. Aerial view and photos of 259 Kentish Town Road and nearest dwellings

Figure 2. Position A noise monitor data (free-field values)

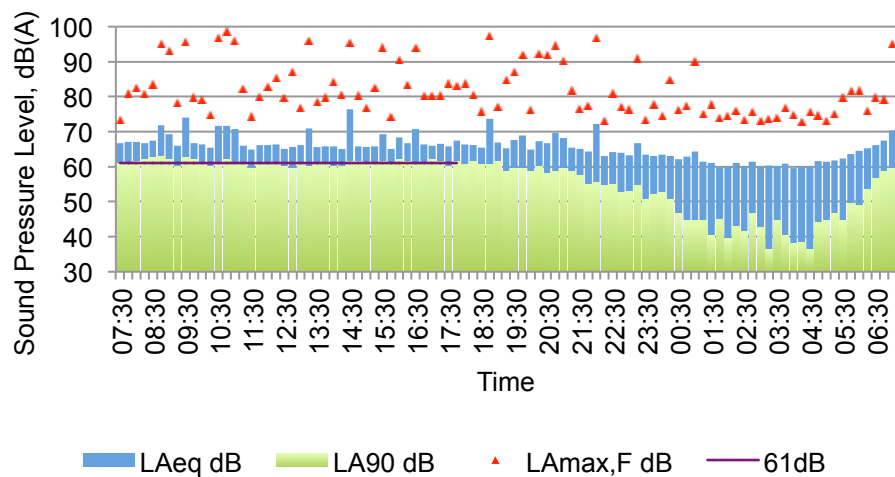


Figure 3. Position B noise monitor data (free-field values)

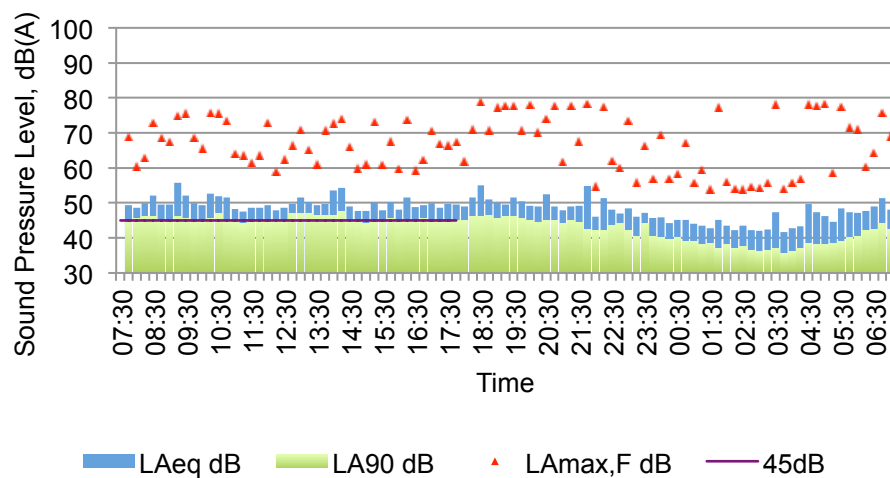


Table A1. Positions A and B noise monitor data (façade levels)

Start Time	Position A			Position B			Start Time	Position A			Position B		
	L _{Amax,F} dB	L _{Aeq} dB	L _{A90} dB	L _{Amax,F} dB	L _{Aeq} dB	L _{A90} dB		L _{Amax,F} dB	L _{Aeq} dB	L _{A90} dB	L _{Amax,F} dB	L _{Aeq} dB	L _{A90} dB
07:30	76.5	69.7	64.0				19:30	90.2	70.7	62.5	80.9	54.5	49.0
07:45	83.9	70.0	63.5	71.9	52.3	47.5	19:45	94.9	71.9	62.5	73.8	53.4	48.5
08:00	85.6	70.0	64.5	63.5	51.7	48.5	20:00	79.3	67.9	61.5	81.0	52.2	48.0
08:15	83.8	69.7	65.0	65.9	52.9	49.0	20:15	95.4	70.3	63.0	73.2	52.0	47.5
08:30	86.6	70.4	65.5	76.0	55.1	49.0	20:30	94.9	69.7	61.0	77.0	55.4	48.0
08:45	98.2	74.9	66.0	71.5	52.6	48.0	20:45	97.7	72.7	61.5	80.7	52.0	48.0
09:00	96.2	72.3	65.0	70.4	52.6	47.5	21:00	93.3	71.1	62.5	64.8	50.9	47.0
09:15	81.2	69.0	63.0	77.9	58.8	49.0	21:15	84.9	68.4	61.5	80.8	51.9	48.0
09:30	98.8	77.1	65.5	78.6	55.1	48.5	21:30	79.6	68.0	60.5	70.7	52.1	47.5
09:45	82.9	69.8	65.0	71.5	52.9	47.5	21:45	80.5	67.4	58.0	81.5	57.9	45.5
10:00	82.1	69.4	63.5	68.6	52.3	48.0	22:00	99.9	75.2	58.5	57.9	49.1	45.0
10:15	77.9	68.4	63.0	78.8	55.7	48.5	22:15	76.1	66.1	57.5	80.6	54.3	45.0
10:30	99.9	74.6	64.0	78.7	55.0	50.0	22:30	84.0	67.1	58.0	65.2	51.0	46.5
10:45	101.7	74.7	65.0	76.5	54.5	48.0	22:45	80.1	67.0	55.5	63.1	49.9	47.0
11:00	99.0	73.8	64.0	67.1	51.2	47.5	23:00	79.5	66.3	56.0	76.5	51.5	45.0
11:15	85.3	69.0	63.5	66.6	50.5	47.0	23:15	94.1	69.7	57.5	58.9	49.0	43.5
11:30	77.4	67.9	62.5	64.4	51.6	47.5	23:30	76.4	66.5	53.5	69.3	50.2	47.0
11:45	83.0	69.1	63.5	66.7	51.7	48.0	23:45	80.8	66.1	55.0	60.0	48.7	43.5
12:00	85.9	69.1	64.0	75.9	52.4	47.5	00:00	77.5	66.5	55.5	72.5	48.9	43.0
12:15	88.4	69.4	64.0	61.8	50.9	48.0	00:15	87.8	66.0	53.5	60.0	47.3	42.5
12:30	82.7	68.1	63.0	65.5	51.6	48.0	00:30	79.2	65.1	49.5	61.3	48.1	43.0
12:45	90.2	68.6	62.5	69.6	52.7	50.0	00:45	80.5	65.8	47.5	70.2	48.2	42.0
13:00	79.9	69.1	64.0	73.9	54.6	50.0	01:00	93.1	67.3	47.5	58.7	47.1	42.0
13:15	98.9	74.0	63.0	68.3	53.2	50.0	01:15	78.2	64.4	47.5	62.6	46.5	41.0
13:30	81.6	68.6	63.5	64.1	52.3	49.5	01:30	80.8	64.1	43.5	56.9	45.8	41.5
13:45	82.8	68.8	63.5	73.8	52.8	49.5	01:45	77.0	62.8	48.0	80.3	48.1	40.0
14:00	87.3	68.9	63.0	75.8	56.6	49.5	02:00	77.5	63.0	42.5	59.2	46.5	41.0
14:15	83.7	68.1	63.0	77.0	57.3	50.5	02:15	79.0	64.1	46.0	57.1	45.2	40.0
14:30	98.5	79.4	64.5	69.0	51.9	48.0	02:30	76.5	63.0	44.5	56.9	46.5	40.5
14:45	83.4	68.9	64.5	63.0	50.8	47.5	02:45	78.7	64.5	49.5	57.7	45.3	39.5
15:00	79.9	68.6	64.0	64.0	50.7	47.0	03:00	76.1	62.9	45.5	57.3	45.1	39.0
15:15	85.7	68.9	63.5	76.3	53.0	47.5	03:15	76.7	63.4	39.5	58.8	45.5	39.5
15:30	97.2	72.3	64.5	63.8	50.9	47.5	03:30	77.1	63.1	47.5	81.2	50.3	40.0
15:45	77.2	68.1	64.0	70.7	53.3	48.5	03:45	79.7	63.9	43.5	57.2	44.6	38.5
16:00	93.7	71.3	65.0	62.7	51.1	47.5	04:00	78.0	62.6	41.0	58.7	45.7	39.0
16:15	86.4	69.7	64.5	76.8	54.6	48.0	04:15	75.9	62.9	41.5	60.1	46.3	40.0
16:30	97.0	73.8	64.0	62.5	51.8	48.0	04:30	78.7	63.0	39.5	81.3	52.7	41.5
16:45	83.2	69.3	64.0	65.3	52.3	48.5	04:45	77.7	64.6	47.0	80.7	50.4	41.0
17:00	83.3	69.0	65.0	73.5	52.9	47.5	05:00	76.2	64.4	47.5	81.4	49.3	41.0
17:15	83.4	69.6	64.5	69.9	51.7	47.5	05:15	78.2	64.8	49.5	61.6	47.6	41.5
17:30	87.0	68.8	63.0	69.6	52.7	47.5	05:30	82.9	65.3	47.5	80.6	51.5	42.0
17:45	86.1	70.4	64.5	70.5	52.6	48.0	05:45	84.8	66.7	52.5	74.7	50.3	43.0
18:00	86.9	69.3	63.5	64.9	51.9	48.0	06:00	84.9	67.6	52.0	74.1	50.1	43.5
18:15	83.6	69.1	64.5	74.2	54.6	49.0	06:15	79.0	68.3	56.5	63.3	50.8	45.0
18:30	78.8	68.5	63.5	82.0	58.1	49.0	06:30	82.9	69.1	59.5	67.3	51.9	45.5
18:45	100.5	76.7	63.5	73.8	54.0	49.5	06:45	82.4	70.4	61.5	78.8	54.3	47.0
19:00	80.1	69.9	64.5	80.4	53.0	48.5	07:00	98.2	73.4	62.5	72.1	51.0	45.5
19:15	87.8	68.2	61.5	80.8	52.6	49.0							