

# **Slough Trading Estate**

**Environmental Sound Monitoring Report** 

On behalf of SEGRO

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## **Appendices**

- Appendix A Glossary of Acoustic Terminology
- Appendix B Instrumentation
- Appendix C Meteorological Conditions
- Appendix D Time History Graphs
- Appendix E Attended Survey Results



## 1 Introduction

### 1.1 Background

- 1.1.1 Stantec UK Ltd. has been commissioned by SEGRO to undertake environmental sound monitoring in the vicinity of nearby residential receptors to support the new Simplified Planning Zone (SPZ) at Slough Trading Estate.
- 1.1.2 In 2014 Slough Borough Council (SBC) and SEGRO renewed the SPZ agreement, designed to enable the "rapid creation" of new buildings on the Slough Trading Estate. SEGRO has started preparing for the new SPZ, which is due to expire in 2024. This report provides SEGRO with information relating to the existing sound climate to guide future development, and inform the Council, other statutory stakeholders and the local community.
- 1.1.3 This report presents the results of the sound monitoring undertaken around the Trading Estate in the vicinity of existing noise sensitive residential receptors.
- 1.1.4 An explanation of the acoustic terminology used in this report is included in **Appendix A**.

#### 1.2 **Objectives**

- 1.2.1 The objectives of this report are:
  - To present the results of the detailed daytime and night-time attended and unattended environmental sound monitoring undertaken by Stantec UK.

#### 1.3 Site Description and Location

- 1.3.1 Slough Trading Estate is located in Slough, Berkshire, approximately 3 km to the west of Slough town centre and falls within the jurisdiction of Slough Borough Council.
- 1.3.2 SEGRO own land to the east of the A355 and land between Whitby Road and the railway. Whilst this is not currently in the SPZ, it may be included in the future. SEGRO have also acquired Perth Industrial Estate and it is assumed this area will be included in the SPZ.
- 1.3.3 The site consists of 486 acres of commercial uses. The site is bound by residential properties to the north. The A4 separates the trading estate from residential uses to the south. The A355 separates the trading estate from dwellings to the east. Haymill Valley park borders the site to the west. The Great Western railway line runs through the centre of the site.



## 2 Environmental Sound Surveys

### 2.1 Procedure

- 2.1.1 Environmental sound monitoring was undertaken during various periods between April 2022 and January 2024 to determine the existing environmental sound climate in locations considered representative of the nearest noise sensitive receptors to the site.
- 2.1.2 Unattended measurements were undertaken at nine measurement locations. Measurement locations were selected to represent the nearest noise sensitive receptors to the site and are considered to represent the environmental sound climate at the receptors whilst allowing for access and security constraints.
- 2.1.3 Attended measurements were undertaken at five measurement locations.
- 2.1.4 **Table 2.1** outlines the sound monitoring schedule for the unattended and attended sound monitoring.



#### Table 2.1: Sound Monitoring Schedule

| Position | Survey Periods  |
|----------|---|
|          | Thursday 28 April 2022 to Tuesday 17 May 2022           |
| LT1      | Thursday 31 May 2022 to Tuesday 14 June 2022            |
|          | Tuesday 28 June 2022 to Monday 11 July 2022             |
|          | Thursday 28 April 2022 to Tuesday 17 May 2022           |
| LT2      | Thursday 31 May 2022 to Tuesday 14 June 2022            |
|          | Monday 11 July 2022 to Tuesday 26 July 2022             |
| 1.70     | Thursday 28 April 2022 to Tuesday 17 May 2022           |
| LI3      | Inursday 31 May 2022 to Tuesday 14 June 2022            |
|          |   |
|          | Thursday 28 April 2022 to Tuesday 17 May 2022           |
| L14      | Tuesday 26 July 2022 to Monday 11 July 2022             |
|          | Tuesday 20 buly 2022 to Tuesday 00 August 2022          |
| 1 T5     | Tuesday 17 May 2022 to Tuesday 31 May 2022              |
| 210      | Monday 11 July 2022 to Tuesday 26 July 2022             |
|          | Tuesday 17 May 2022 to Tuesday 31 May 2022              |
| LT6      | Tuesday 14 June 2022 to 28 June 2022                    |
|          | Monday 11 July 2022 to Tuesday 26 July 2022             |
|          | Tuesday 17 May 2022 to Tuesday 31 May 2022              |
| LT7      | Tuesday 14 June 2022 to 28 June 2022                    |
|          | Tuesday 26 July 2022 to Tuesday 09 August 2022          |
| LT8      | Tuesday 17 May 2022 to Tuesday 31 May 2022              |
|          | Tuesday 28 June 2022 to Monday 11 July 2022             |
|          | Tuesday 26 July 2022 to Tuesday 09 August 2022          |
|          | Thursday 31 May 2022 to Tuesday 14 June 2022            |
| LT9      | Tuesday 28 June 2022 to Monday 11 July 2022             |
|          | Tuesday 26 July 2022 to Tuesday 09 August 2022          |
| LT10     | Wednesday 27 September 2023 to Friday 29 September 2023 |
| LT11     | Wednesday 27 September 2023 to Friday 29 September 2023 |
| LT12     | Wednesday 27 September 2023 to Friday 29 September 2023 |
| LT13     | Wednesday 27 September 2023 to Friday 29 September 2023 |
| LT14     | Tuesday 21 November 2023 to Friday 24 November 2023     |
| ST1      | Tuesday 11 July 2022                                    |
|          | Tuesday 09 August 2022                                  |
| ST2      | Thursday 21 December 2023                               |
| ST3      | Thursday 21 December 2023                               |
|          | Tuesday 09 January 2024                                 |
| ST4      | Thursday 21 December 2023                               |
|          | Tuesday 09 January 2024                                 |
| ST5      | Thursday 21 December 2023                               |
| 515      | Tuesday 09 January 2024                                 |



- 2.1.5 For the unattended measurements, the sound level meters were located in environmental cases. The microphones were located at a height of 1.5m above ground level and were connected to the meters via an extension cable and fitted with the manufacturer's windshield.
- 2.1.6 For the attended measurements, the microphone was located at a height of 1.5 m above ground level and was connected directly to the sound level meter, which was fixed to a tripod. The meter was fitted with the manufacturer's windshield. All measurements were undertaken in a free field location.
- 2.1.7 The instrumentation used in the survey (including calibration information) is listed in **Appendix B.**
- 2.1.8 Field calibrations were performed before and after each measurement period with no significant fluctuations recorded (< 0.5 dB). Calibration certificates are available upon request.

### 2.2 Measurement Locations

2.2.1 The measurement positions are detailed in **Figure 2.1** and described in **Table 2.2**.



Figure 2.1: Environmental Sound Measurement Locations

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| Table 2.2: Description of Measurement Locations |
|---|
|---|

| Position | Adress  | Receptors   | Description  |
|----------|---|---|--|
| LT1      | Plymouth Road, Slough,<br>Berkshire SL1 4LP   | Representative of<br>dwellings on Littlebrook<br>Avenue at night-time and<br>weekends.  | The microphone was located approximately 15 metres from the industrial estate.   |
| LT2      | 912-923 Yeovil Road,<br>Slough, Berkshire SL1<br>4JG  | Representative of<br>dwellings on Amberley<br>Road.   | The microphone was located<br>approximately 3 metres from the<br>nearby road and 5 metres from the<br>entrance of the industrial estate.   |
| LT3      | Jump In Trampoline Park,<br>550 Dundee Road,<br>Slough, Berkshire SL1<br>4LE                          | Representative of<br>dwellings on Pevensey<br>Road.   | The microphone was located<br>approximately 8 metres from the<br>entrance to the industrial estate and<br>approximately 40 metres from the<br>nearby road.                           |
| LT4      | Fullers Fulfilment, Fairlie<br>Road, Slough, Berkshire,<br>SL1 4PY                                    | Representative of dwellings on Fairlie Road.  | The microphone was located<br>approximately 20 metres from the<br>industrial estate and approximately 55<br>metres from the nearby road.   |
| LT5      | Perth Trading Estate,<br>Montrose Avenue, Slough,<br>Berkshire, SL1 4XX                               | Representative of<br>dwellings on Montrose<br>Avenue.   | The microphone was located approximately 6 metres from Montrose Avenue.  |
| LT6      | Wheelabrator Impact,<br>Whitby Road, Slough,<br>Berkshire, SL1 4AN                                    | Unable to access a<br>location closer to the<br>school. Night-time and<br>weekends are<br>representative of dwellings<br>on Northampton Avenue. | The microphone was located approximately 10 metres from the industrial estate.   |
| LT7      | Data Centre, 672 Galvin<br>Road, Slough, Berkshire,<br>SL1 4AN  | Representative of<br>dwellings on Pitts Road.   | The microphone was located approximately 70 metres from Farnham Road.  |
| LT8      | 188-190 Bath Road,<br>Slough, Berkshire, SL1<br>3GA   | Representative of dwellings on Bath Road.   | The microphone was located in a free<br>field position. The microphone was<br>located approximately 80 metres from<br>Bath Road and approximately 50<br>metres from the data centre. |
| LT9      | Virgin<br>Media/02/Telefonica, 260-<br>266 Bath Road, Slough,<br>Berkshire, SL1 4DX                   | Representative of dwellings on Bath Road.   | The microphone was located in a free<br>field position. The microphone was<br>located approximately 10 metres from<br>nearby road.   |
| LT10     | Atlas Autoparts, 73 Whitby<br>Road, Slough, Berkshire<br>SL1 3DR                                      | Representative of<br>dwellings on Frank Sutton<br>Way   | The microphone was located in a free<br>field position. The microphone was<br>located approximately 0.5 m from the<br>curb of Frank Sutton Way at a height<br>of approximately 2 m.  |
| LT11     | Crown Decorating Centre,<br>Unit 3 Fareham Road,<br>Slough, Berkshire SL1<br>4UN                      | Representative of dwellings on Montrose Avenue.   | The microphone was located in a free<br>field position. The microphone was<br>located approximately 6 m from the<br>nearby road.   |
| LT12     | City 1 <sup>st</sup> Tyres, 10 Perth<br>Trading Estate, Perth<br>Avenue, Slough, Berkshire<br>SL1 4XX | Representative of dwellings on Rowan Way.   | The microphone was located in a free<br>field position along the boundary fence<br>between the City 1 <sup>sT</sup> Tyres car park<br>and Rowan Way.                                 |



| LT13 | Substation, Stirling Road,<br>Slough, Berkshire SL2<br>1SL                 | Representative of<br>dwellings on Bodmin<br>Avenue.    | The microphone was located in a free<br>field position along the boundary of the<br>national grid substation premises and<br>the common land adjacent to premises<br>on Bodmin Avenue. The<br>measurement location was shielded<br>from the main noise generating areas<br>of the national grid demise by an on-<br>site building. |
|------|--|--|--|
| LT14 | Hanovia Limited, 780<br>Buckingham Avenue,<br>Slough, Berkshire SL1<br>4LA | Representative of<br>dwellings on Buckingham<br>Avenue | The microphone was located in a free<br>field position. The microphone was<br>located approximately 15 metres from<br>Buckingham Avenue.   |
| ST1  | 115-135 Farnham Road,<br>Slough, Berkshire SL1<br>4UN                      | Representative of<br>dwellings on Farnham<br>Road.     | The microphone was located in a free<br>field position. The microphone was<br>located approximately 10 m from<br>Farnham Road.   |
| ST2  | Whitby Road/Northampton<br>Avenue, Slough SL1 3BW                          | Representative of<br>Herschel Grammar School           | The microphone was located in a free<br>field position. The microphone was<br>located approximately 5 m from<br>Whitby Road  |
| ST3  | Bodmin Avenue, Slough,<br>Berkshire SL2 1SL                                | Representative of<br>dwellings on Bodmin<br>Avenue     | The microphone was located in a free<br>field position. The microphone was<br>located approximately 10 m from<br>Bodmin Avenue.  |
| ST4  | Pevensey Road, Slough,<br>Berkshire SL1 4PY                                | Representative of<br>dwellings off Pevensey<br>Road    | The microphone was located in a free<br>field position. The microphone was<br>located approximately 10 m from<br>Pevensey Road.  |
| ST5  | Greystoke Road, Slough,<br>Berkshire SL2 1TS                               | Representative of<br>dwellings on Greystoke<br>Road    | The microphone was located in a free<br>field position. The microphone was<br>located approximately 40 m from<br>Greystoke Road.   |

### 2.3 Meteorological Conditions

- 2.3.1 A review of publicly available weather forecasts and observations at the beginning and end of the survey period, the weather conditions are detailed in **Appendix C**<sup>1</sup>.
- 2.3.2 Rain was noted to occur on 14 occasions during the survey period as detailed in **Appendix C**. These periods have been excluded from the survey period. However, there is sufficient data during periods of suitable weather conditions to obtain representative measurements of the existing environmental sound climate.
- 2.3.3 Winds speeds were less than 5 m/s, therefore wind is unlikely to have affected the measurements.

### 2.4 Assumptions/Limitations

2.4.1 The engineer noticed nothing unusual in terms of the sound climate at the time of the survey. This report refers, within the limitations stated, to the environment of the site in the context of the surrounding area at the time of the inspections. Environmental conditions can vary. No warranty is given as to the possibility of changes in the environment of the site and surrounding area at differing times.

<sup>&</sup>lt;sup>1</sup> https://www.wunderground.com/ (Accessed 01 November 2022)



### 2.5 Environmental Sound Climate

- 2.5.1 Due to the nature of the survey (i.e. unattended), it is not possible to accurately comment on the dominant sound sources or specific sound events during the entire survey period.
- 2.5.2 The environmental sound climate at each measurement location is detailed in **Table 2.3** based on observations during the site visits.

| Table 2.3: Environmental Sound ( | Climate at Measurement Position |
|----------------------------------|---------------------------------|
|----------------------------------|---------------------------------|

| Position | Environmental Sound Climate   |
|----------|---|
| LT1      | Noise from industrial estate (e.g. vehicle movements, operation of nearby industrial units).  |
| LT2      | Noise from industrial estate (e.g. vehicle movements, operation of nearby industrial units). Delivery vehicles serving Ragus sugars dominant when occurring.        |
| LT3      | Distant road traffic noise. Noise associated with patrons visiting Jump In. Nearby delivery vehicles dominant when occurring.                                       |
| LT4      | Vehicular movement on Fairlie Road. Vehicular movements in Fullers Fulfilment car park area dominant when occurring.  |
| LT5      | Vehicular movements on Montrose Avenue.   |
| LT6      | Noise from Wheelabrator site. Vehicular movement on Whitby Road dominant when occurring. Daytime sound climate is not representative of receptors at this position. |
| LT7      | Distant traffic noise. Overflying aircraft.   |
| LT8      | Distant traffic noise. Fans from nearby data centre audible but not dominant.   |
| LT9      | Vehicular movements on Bath Road.   |
| LT10     | Vehicular movements on Whitby Road and the A355 Farnham Road.   |
| LT11     | Vehicular movements on Farnham Road.  |
| LT12     | Vehicles on the surrounding road network.   |
| LT13     | Vehicles on the surrounding road network and activity associated with the Total Systems Management open storage site and National Grid plot.                        |
| LT14     | Vehicular movements on Buckingham Avenue. Railway movements on the nearby railway line audible when occurring.  |
| ST1      | Vehicular movements on Farnham Road.  |
| ST2      | Vehicular movements on Whitby Road.   |
| ST3      | Vehicular movements on Farilie Road. Nearby plant at Slough Trading Estate audible.   |
| ST4      | Vehicular movements on Farilie Road and Pevensey Road. Nearby plant at Slough<br>Trading Estate audible.  |
| ST5      | Distant traffic noise. Nearby plant at Slough Trading Estate audible.   |



# 3 Environmental Sound Monitoring Results

### 3.1 Attended Sound Monitoring Results

- 3.1.1 Details of the full results of the attended surveys are presented in **Appendix E**.
- 3.1.2 A summary of the attended environmental sound monitoring results at Position ST1 is outlined in **Table 3.1** below.

Table 3.1: Summary of Measured Environmental Sound Survey Results at Position ST1

| Location | Date       | Time Period T              | Measured Sou       | und Level (dB) |
|----------|------------|----------------------------|--------------------|----------------|
| Location | Dute       | rime r enou, r             | L <sub>Aeq,T</sub> | Typical LA90,T |
| ST 1     | 11/07/2022 | 11:00 hours to 14:00 hours | 68                 | 58             |
|          | 09/08/2022 | 11:30 hours to 14:30 hours | 69                 | 58             |

3.1.3 A summary of the attended environmental sound monitoring results at Positions ST2, ST3, ST4 and ST5 is outlined in **Table 3.2** below.

Table 3.2: Summary of Measured Environmental Sound Survey Results at Positions ST2, ST3, ST4 and ST5

| Lesstian    | Dete       |            |                     | Measured Sound Level (dB) |            |  |
|-------------|------------|------------|---------------------|---------------------------|------------|--|
| Location    | Date       | Start Time | Time Period (nn:mm) | dB L <sub>Aeq,T</sub>     | dB Laf90.t |  |
| ST 2        |            | 11:20      | 00:15               | 65                        | 58         |  |
|             | 21/12/2023 | 12:59      | 00:15               | 65                        | 57         |  |
|             |            | 14:36      | 00:15               | 63                        | 54         |  |
|             |            | 11:45      | 00:15               | 56                        | 50         |  |
|             | 21/12/2023 | 13:49      | 00:15               | 53                        | 49         |  |
| <b>6T</b> 2 |            | 15:56      | 00:15               | 53                        | 49         |  |
| 515         |            | 00:21      | 00:15               | 50                        | 45         |  |
|             | 09/01/2024 | 01:27      | 00:15               | 42                        | 39         |  |
|             |            | 02:32      | 00:15               | 43                        | 40         |  |
| ST 4        | 21/12/2023 | 12:33      | 00:15               | 63                        | 52         |  |
|             |            | 14:09      | 00:15               | 62                        | 51         |  |
|             |            | 16:17      | 00:15               | 63                        | 53         |  |
|             | 09/01/2024 | 00:41      | 00:15               | 54                        | 48         |  |
|             |            | 01:47      | 00:15               | 49                        | 47         |  |
|             |            | 02:51      | 00:15               | 52                        | 47         |  |
|             |            | 12:08      | 00:15               | 56                        | 48         |  |
|             | 21/12/2023 | 13:25      | 00:15               | 56                        | 47         |  |
| OT F        |            | 15:33      | 00:15               | 50                        | 45         |  |
| 515         |            | 01:06      | 00:15               | 45                        | 43         |  |
|             | 09/01/2024 | 02:09      | 00:15               | 45                        | 43         |  |
|             |            | 03:14      | 00:15               | 45                        | 42         |  |



### 3.2 Unattended Sound Monitoring Results

- 3.2.1 A summary of the unattended environmental sound monitoring results is outlined below. Time history graphs detailing the results of the survey are presented in **Appendix D**.
- 3.2.2 The calculation of the typical dB L<sub>A90,15minutes</sub> sound level has been undertaken based on the statistical distribution of background sound levels during the measurement period in general accordance with guidance in BS 4142:2014+A1:2019.
- 3.2.3 A summary of the survey results is provided in **Table 3.3**.

|          | Measurement           |                            | Measured Sound Level (dB)        |                                     |  |
|----------|-----------------------|----------------------------|----------------------------------|-------------------------------------|--|
| Position | Period<br>(dd/mm/yy)  | Parameter                  | Daytime (07:00 – 23:00<br>hours) | Night-time (23:00 – 07:00<br>hours) |  |
|          | 28/04/22-             | *L <sub>Aeq,T</sub>        | 50                               | 48                                  |  |
|          | 11/05/22              | **L <sub>A90,15mins</sub>  | 41                               | 38                                  |  |
| 1 74     | 31/05/22-             | *L <sub>Aeq,T</sub>        | 51                               | 46                                  |  |
| LII      | 14/06/22              | **L <sub>A90,15</sub> mins | 42                               | 38                                  |  |
|          | 28/06/22-             | *L <sub>Aeq,T</sub>        | 51                               | 45                                  |  |
|          | 11/07/22              | **L <sub>A90,15</sub> mins | 41                               | 37                                  |  |
|          | 28/04/22-             | *L <sub>Aeq,T</sub>        | 53                               | 48                                  |  |
|          | 17/05/22              | **L <sub>A90,15</sub> mins | 42                               | 40                                  |  |
|          | 31/05/22-             | *L <sub>Aeq,T</sub>        | 53                               | 46                                  |  |
| LIZ      | 14/06/22              | **L <sub>A90,15</sub> mins | 43                               | 41                                  |  |
|          | 11/07/22-             | *L <sub>Aeq,T</sub>        | 53                               | 47                                  |  |
|          | 26/07/22              | **L <sub>A90,15</sub> mins | 44                               | 43                                  |  |
|          | 28/04/22-<br>17/05/22 | *L <sub>Aeq,T</sub>        | 54                               | 48                                  |  |
|          |                       | **L <sub>A90,15</sub> mins | 45                               | 40                                  |  |
| 1 13     | 31/05/22-<br>14/06/22 | *L <sub>Aeq,T</sub>        | 55                               | 44                                  |  |
| LIJ      |                       | **LA90,15mins              | 45                               | 40                                  |  |
|          | 11/07/22-             | *L <sub>Aeq,T</sub>        | 58                               | 45                                  |  |
|          | 26/07/22              | **L <sub>A90,15</sub> mins | 46                               | 41                                  |  |
|          | 28/04/22-             | *L <sub>Aeq,T</sub>        | 55                               | 51                                  |  |
|          | 17/05/22              | **L <sub>A90,15</sub> mins | 48                               | 42                                  |  |
|          | 28/06/22-<br>11/07/22 | *L <sub>Aeq,T</sub>        | 53                               | 49                                  |  |
| L14      |                       | **LA90,15mins              | 48                               | 42                                  |  |
|          | 26/07/2022-           | *L <sub>Aeq,T</sub>        | 53                               | 48                                  |  |
|          | 09/08/22              | **L <sub>A90,15mins</sub>  | 47                               | 42                                  |  |
|          | 17/05/22-             | *L <sub>Aeq,T</sub>        | 59                               | 54                                  |  |
|          | 30/05/22              | **L <sub>A90,15mins</sub>  | 51                               | 49                                  |  |
| 1 75     | 14/06/22-             | *L <sub>Aeq,T</sub>        | 61                               | 54                                  |  |
| LIS      | 28/06/22              | **LA90,15mins              | 52                               | 50                                  |  |
|          | 11/07/22-             | *L <sub>Aeq,T</sub>        | 59                               | 54                                  |  |
|          | 26/07/22              | **L <sub>A90,15</sub> mins | 52                               | 50                                  |  |
| I TE     | 17/05/22-             | *L <sub>Aeq,T</sub>        | 60                               | 54                                  |  |
| LT6      | 31/05/22              | **LA90,15mins              | 49                               | 44                                  |  |

Table 3.3: Summary of Measured Environmental Sound Survey Results - Unattended



|  | Measurement                 |                            | Measured Sound Level (dB)        |                                     |  |
|--|-----------------------------|----------------------------|----------------------------------|-------------------------------------|--|
| Position   | Period<br>(dd/mm/yy)        | Parameter                  | Daytime (07:00 – 23:00<br>hours) | Night-time (23:00 – 07:00<br>hours) |  |
|  | 14/06/22-                   | *L <sub>Aeq,T</sub>        | 62                               | 56                                  |  |
|  | 28/06/22                    | **L <sub>A90,15</sub> mins | 55                               | 47                                  |  |
|  | 11/07/22-                   | *L <sub>Aeq,T</sub>        | 60                               | 57                                  |  |
|  | 26/07/22                    | **L <sub>A90,15</sub> mins | 53                               | 48                                  |  |
|  | 17/05/22-                   | *L <sub>Aeq,T</sub>        | 58                               | 46                                  |  |
|  | 31/05/22                    | **L <sub>A90,15mins</sub>  | 44                               | 42                                  |  |
| 1 77   | 14/06/22-                   | *L <sub>Aeq,T</sub>        | 50                               | 45                                  |  |
|  | 28/06/22                    | **L <sub>A90,15mins</sub>  | 44                               | 42                                  |  |
|  | 26/07/22-                   | *L <sub>Aeq,T</sub>        | 50                               | 43                                  |  |
|  | 09/08/22                    | **L <sub>A90,15</sub> mins | 43                               | 41                                  |  |
|  | 17/05/22-                   | *L <sub>Aeq,T</sub>        | 54                               | 52                                  |  |
|  | 31/05/22                    | **LA90,15mins              | 50                               | 50                                  |  |
| 1 70   | 28/06/22-                   | *L <sub>Aeq,T</sub>        | 55                               | 52                                  |  |
| LIO  | 10/07/22                    | **L <sub>A90,15</sub> mins | 51                               | 49                                  |  |
|  | 26/07/22-<br>09/08/22       | *L <sub>Aeq,T</sub>        | 53                               | 52                                  |  |
|  |                             | **L <sub>A90,15</sub> mins | 50                               | 49                                  |  |
| LT9  | 31/05/22-<br>14/06/22       | *L <sub>Aeq,T</sub>        | 61                               | 56                                  |  |
|  |                             | **L <sub>A90,15mins</sub>  | 50                               | 42                                  |  |
|  | 28/06/22-                   | *L <sub>Aeq,T</sub>        | 60                               | 54                                  |  |
|  | 11/07/22                    | **L <sub>A90,15</sub> mins | 50                               | 41                                  |  |
|  | 26/07/22-                   | *L <sub>Aeq,T</sub>        | 60                               | 53                                  |  |
|  | 08/08/22                    | **L <sub>A90,15mins</sub>  | 49                               | 42                                  |  |
| 1.740  |                             | *L <sub>Aeq,T</sub>        | 62                               | 53                                  |  |
| LIIO   |                             | **L <sub>A90,15</sub> mins | 49                               | 48                                  |  |
| 1 744  |                             | *L <sub>Aeq,T</sub>        | 70                               | 67                                  |  |
|  | 27/09/2023 -                | **L <sub>A90,15mins</sub>  | 60                               | 53                                  |  |
| 1.740  | 29/09/2023                  | *L <sub>Aeq,T</sub>        | 55                               | 49                                  |  |
| LI12   |                             | **L <sub>A90,15mins</sub>  | 49                               | 46                                  |  |
| 1.740  |                             | *L <sub>Aeq,T</sub>        | 52                               | 51                                  |  |
| LI13   |                             | **LA90,15mins              | 46                               | 46                                  |  |
| 1 74 4   | 21/11/2023 -                | *L <sub>Aeq,T</sub>        | 65                               | 60                                  |  |
| L114   | 24/11/2023                  | **LA90,15mins              | 57                               | 41                                  |  |
| *Numerical aver  | age of daily $L_{Aeq,T}$ du | ring measurement per       | riod                             |                                     |  |
| **Calculated based on guidance in BS4142:2014 +A1:2019 |                             |                            |                                  |                                     |  |



## 4 Conclusions

- 4.1.1 Stantec UK Ltd. has been commissioned by SEGRO to undertake environmental sound monitoring in relation to supporting the new Simplified Planning Zone (SPZ) at Slough Trading Estate.
- 4.1.2 The results of the environmental sound monitoring undertaken at the site have been presented in this report. Monitoring was undertaken at locations around the Trading Estate adjacent to existing noise sensitive receptors, specifically residential receptors.



# Appendix A Glossary of Acoustic Terminology

| Parameter  | Description   |
|--|---|
| Acoustic Environment   | Sound at the receiver from all sound sources as modified by the environment.  |
| Ambient Sound  | Totally encompassing sound in a given situation at a given time, usually composed of sound from many sources near and far. Comprises of the residual sound and the specific sound when present.   |
| Ambient Sound Level<br>(L <sub>a</sub> = L <sub>Aeq,T</sub> )                      | Equivalent continuous A-weighted sound pressure level of the totally<br>encompassing sound in a given situation at a given time, usually from many<br>sources near and far, at the assessment location over a given time interval, T.                 |
| A-Weighted Decibel (dBA)   | A decibel level that has been corrected for the A-Weighting curve.  |
| A-Weighting  | Octave band and 1/3 octave band filters that correlate to the response of the human hearing system to sound pressure levels at different frequencies.   |
| Background Sound   | The level of sound measured in the absence of extraneous noise sources.   |
| Background Sound Level<br>(L <sub>A90,T</sub> )                                    | A-weighted sound pressure level that is exceeded by the residual sound at the assessment location for 90% of a given time interval, T, measured using a fast time-weighting and quoted to the nearest whole number of decibels.                       |
| Decibel (dB)   | A logarithmic unit used to describe the ratio between the measured level and a reference level of 0 dB. The ratio can be sound pressure, intensity or power. The reference value for sound pressure is 20 $\mu$ Pa and for sound power is 1 $\rho$ W. |
| Equivalent Continuous A-<br>Weighted Sound Pressure<br>Level (L <sub>Aeq,T</sub> ) | Value of the time-averaged A-weighted sound pressure level, in decibels (dB), of a continuous steady sound for the duration of the specified time interval, T.  |
| Façade Level   | The sound pressure level at a distance of 1 metre from the façade   |
| Fast Time Weighted   | The speed at which the instrument responds to changes in amplitude of the measured signal. The response time of a fats time-weighted instrument is 0.125 seconds.   |
| Free-Field Level   | The sound pressure level measured away from any reflective surfaces.  |
| Frequency (f)  | The number of cycles of pressure fluctuations within a given period of time.<br>Measured in Hertz.  |
| Hertz (Hz)   | The unit of frequency or pitch of a sound. One hertz is equal to one cycle per second.  |
| L <sub>Amax</sub>  | The maximum A-weighted level measured during a given time period.   |
| Octave Band  | Band of frequencies where the upper limit of the band is twice the frequency of the lower limit. E.g., the 1000 Hz band contains noise energy at all frequencies from 707 to 1414 Hz.   |
| Percentile Level (L <sub>AN,T</sub> )  | The A-Weighted Sound Pressure Level which is exceeded for N% of the specified time interval. E.g., the LA90,1hour is the A-weighted sound level exceeded for 90% of 1 hour/   |
| Reference Time Interval (T)  | Specified interval over which the specific sound level is determined.   |
| Sound Pressure   | The difference between the pressure caused by a sound wave and the ambient pressure of the medium the sound wave is passing through. Measured in Pascals.   |
| Sound Pressure Level (L <sub>p</sub> )   | The logarithm of the ratio of a given sound pressure (p) to the reference sound pressure (p0). The reference value for sound pressure is 20 µPa. Defined as:<br>$L_p = 20 log \left(\frac{p}{p_0}\right)$   |



| Parameter     | Description                                   |
|---------------|---|
| Sound Sources | Sounds generated by nature or human activity. |

# Appendix B Instrumentation

B.1.1 The instrumentation used in the survey is listed in **Table B.1**.

| I able B.T. Instrumentation | Table | B.1: | Instrumentation |
|-----------------------------|-------|------|-----------------|
|-----------------------------|-------|------|-----------------|

| Description                   | Manufacturer | Туре   | Serial<br>Number | Laboratory<br>Calibration<br>Date* |
|-------------------------------|--------------|--------|------------------|------------------------------------|
| Sound Level Meter             |              | NL-52  | 542902**         | 23/06/2022                         |
| 1/2" Pre-polarised microphone | Rion         | UC-59  | 07374**          | 23/06/2022                         |
| Pre-amplifier                 |              | NH-25  | 43580**          | 23/06/2022                         |
| Sound Level Meter             |              | NL-52  | 542903           | 05/02/2021                         |
| 1/2" Pre-polarised microphone | Rion         | UC-59  | 06480            | 05/02/2021                         |
| Pre-amplifier                 |              | NH-25  | 42931            | 05/02/2021                         |
| Sound Level Meter             |              | NL-52  | 1043457          | 05/02/2021                         |
| 1/2" Pre-polarised microphone | Rion         | UC-59  | 07232            | 05/02/2021                         |
| Pre-amplifier                 |              | NH-25  | 43486            | 05/02/2021                         |
| Sound Level Meter             |              | NL-52  | 1043458          | 10/09/2021                         |
| 1/2" Pre-polarised microphone | Rion         | UC-59  | 07233            | 10/09/2021                         |
| Pre-amplifier                 |              | NH-25  | 43487            | 10/09/2021                         |
| Sound Level Meter             |              | 2250   | 3012156          | 30/09/2020                         |
| 1/2" Pre-polarised microphone | Brüel & Kjær | 4189   | 3130464          | 30/09/2020                         |
| Pre-amplifier                 |              | ZC0032 | 27836            | 30/09/2020                         |
| Sound Level Meter             |              | NL-52  | 1043456          | 01/02/2023                         |
| 1/2" Pre-polarised microphone | Rion         | UC-59  | 7231             | 01/02/2023                         |
| Pre-amplifier                 |              | NH-25  | 43485            | 01/02/2023                         |
| Sound Level Meter             |              | NL-62  | 930517           | 10/01/2022                         |
| 1/2" Pre-polarised microphone | Rion         | UC-59L | 00701            | 10/01/2022                         |
| Pre-amplifier                 | -            | NH-26  | 00559            | 10/01/2022                         |
| Sound Level Meter             |              | NL-52  | 00620870         | 28/03/2023                         |
| 1/2" Pre-polarised microphone | Rion         | UC-59  | 03712            | 28/03/2023                         |
| Pre-amplifier                 | -            | NH-25  | 31969            | 28/03/2023                         |
| Sound Level Meter             |              | NL-52  | 00732101         | 22/05/2023                         |
| 1/2" Pre-polarised microphone | Rion         | UC-59  | 05286            | 22/05/2023                         |
| Pre-amplifier                 | 1            | NH-25  | 32129            | 22/05/2023                         |
| Calibrator                    | Rion         | NC-74  | 34746691         | 15/08/2022                         |

\* Calibration dates correct at time of environmental sound survey.

\*\* The sound level meter was laboratory calibrated between 20 June 2022 and 26 June 2022.



# Appendix C Meteorological Conditions

| Table | C.1: | Meteorolog | ical Conditions |
|-------|------|------------|-----------------|
|-------|------|------------|-----------------|

| Date       | Temperature (°C) | Precipitation (mm) | Wind Speed (m/s) |
|------------|------------------|--------------------|------------------|
| 28/04/2022 | 10.5             | 0.00               | 0.4              |
| 29/04/2022 | 8.8              | 0.00               | 0.3              |
| 30/04/2022 | 11.2             | 0.00               | 0.2              |
| 01/05/2022 | 11.6             | 0.00               | 0.2              |
| 02/05/2022 | 12.7             | 0.00               | 0.1              |
| 03/05/2022 | 13.1             | 0.00               | 0.2              |
| 04/05/2022 | 13.3             | 1.50               | 0.2              |
| 05/05/2022 | 13.7             | 0.30               | 0.3              |
| 06/05/2022 | 14.8             | 0.00               | 0.4              |
| 07/05/2022 | 15.6             | 0.99               | 0.4              |
| 08/05/2022 | 15.0             | 0.00               | 0.4              |
| 09/05/2022 | 15.4             | 0.00               | 0.6              |
| 10/05/2022 | 15.8             | 0.51               | 0.6              |
| 11/05/2022 | 13.2             | 5.31               | 0.6              |
| 12/05/2022 | 12.6             | 0.00               | 0.5              |
| 13/05/2022 | 14.7             | 0.00               | 0.7              |
| 14/05/2022 | 15.8             | 0.00               | 0.3              |
| 15/05/2022 | 15.7             | 5.11               | 0.4              |
| 16/05/2022 | 16.3             | 1.30               | 0.6              |
| 17/05/2022 | 18.2             | 1.19               | 0.5              |
| 18/05/2022 | 17               | 4.9                | 0.4              |
| 19/05/2022 | 17.3             | 0                  | 0.3              |
| 20/05/2022 | 14.1             | 1.5                | 0.4              |
| 21/05/2022 | 14.7             | 0                  | 0.4              |
| 22/05/2022 | 16.6             | 0                  | 0.3              |
| 23/05/2022 | 14               | 7.29               | 0.2              |
| 24/05/2022 | 13.4             | 5.41               | 0.4              |
| 25/05/2022 | 13.3             | 0.2                | 0.7              |
| 26/05/2022 | 15.1             | 0                  | 0.7              |
| 27/05/2022 | 16.2             | 0                  | 0.6              |
| 28/05/2022 | 13.9             | 0                  | 0.5              |
| 29/05/2022 | 12.5             | 0                  | 0.6              |
| 30/05/2022 | 10.6             | 3.1                | 0.3              |
| 31/05/2022 | 11.1             | 9.91               | 0.2              |
| 01/06/2022 | 12.8             | 1.3                | 0.2              |
| 02/06/2022 | 17.4             | 0                  | 0.6              |
| 03/06/2022 | 17.6             | 0                  | 0.6              |

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| Date       | Temperature (°C) | Precipitation (mm) | Wind Speed (m/s) |
|------------|------------------|--------------------|------------------|
| 04/06/2022 | 15.5             | 1.8                | 1.0              |
| 05/06/2022 | 12.9             | 17.5               | 0.2              |
| 06/06/2022 | 14.3             | 2.79               | 0.2              |
| 07/06/2022 | 16.8             | 0.51               | 0.3              |
| 08/06/2022 | 17.4             | 0.99               | 0.7              |
| 09/06/2022 | 15.9             | 0                  | 0.5              |
| 10/06/2022 | 18.6             | 0                  | 0.6              |
| 11/06/2022 | 17.1             | 0                  | 0.6              |
| 12/06/2022 | 16.1             | 0                  | 0.4              |
| 13/06/2022 | 16.1             | 0                  | 0.3              |
| 14/06/2022 | 18.2             | 0                  | 0.4              |
| 15/06/2022 | 20.4             | 0                  | 0.3              |
| 16/06/2022 | 21.7             | 0                  | 0.2              |
| 17/06/2022 | 24.4             | 0                  | 0.5              |
| 18/06/2022 | 17.4             | 3.1                | 0.6              |
| 19/06/2022 | 14.8             | 0.51               | 0.5              |
| 20/06/2022 | 17.5             | 0                  | 0.5              |
| 21/06/2022 | 19.6             | 0                  | 0.3              |
| 22/06/2022 | 21.2             | 0                  | 0.4              |
| 23/06/2022 | 19.4             | 2.31               | 0.2              |
| 24/06/2022 | 17.6             | 0.2                | 0.7              |
| 25/06/2022 | 15.9             | 3.61               | 0.7              |
| 26/06/2022 | 16.1             | 0.2                | 0.8              |
| 27/06/2022 | 14.8             | 1.3                | 0.5              |
| 28/06/2022 | 15.8             | 0                  | 0.7              |
| 29/06/2022 | 17.3             | 0                  | 0.6              |
| 01/07/2022 | 15.7             | 0                  | 0.5              |
| 02/07/2022 | 16.1             | 0.79               | 0.6              |
| 03/07/2022 | 16.8             | 0                  | 0.3              |
| 04/07/2022 | 17               | 0                  | 0.4              |
| 05/07/2022 | 17               | 0                  | 0.3              |
| 06/07/2022 | 18.8             | 0                  | 0.4              |
| 07/07/2022 | 20.2             | 0                  | 0.4              |
| 08/07/2022 | 21.7             | 0                  | 0.3              |
| 09/07/2022 | 21.6             | 0                  | 0.4              |
| 10/07/2022 | 22.4             | 0                  | 0.3              |
| 11/07/2022 | 24.1             | 0                  | 0.3              |
| 12/07/2022 | 24.8             | 0                  | 0.3              |
| 13/07/2022 | 23.6             | 0                  | 0.3              |
| 14/07/2022 | 19.9             | 0                  | 0.6              |
| 15/07/2022 | 19.9             | 0                  | 0.4              |

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| Date       | Temperature (°C) | Precipitation (mm) | Wind Speed (m/s) |
|------------|------------------|--------------------|------------------|
| 16/07/2022 | 21.5             | 0                  | 0.2              |
| 17/07/2022 | 23.7             | 0                  | 0.4              |
| 18/07/2022 | 27.3             | 0                  | 0.3              |
| 19/07/2022 | 29.5             | 0                  | 0.5              |
| 20/07/2022 | 21.5             | 3                  | 0.6              |
| 21/07/2022 | 19.9             | 0                  | 0.4              |
| 22/07/2022 | 19.9             | 0                  | 0.6              |
| 23/07/2022 | 20.5             | 0                  | 0.5              |
| 24/07/2022 | 22.3             | 0                  | 1.0              |
| 25/07/2022 | 19.6             | 0                  | 0.7              |
| 26/07/2022 | 17.8             | 0                  | 0.3              |
| 27/07/2022 | 18.7             | 0                  | 0.4              |
| 28/07/2022 | 20.3             | 0                  | 0.6              |
| 29/07/2022 | 21.6             | 0                  | 0.3              |
| 30/07/2022 | 21               | 0                  | 0.4              |
| 31/07/2022 | 22.4             | 0                  | 0.6              |
| 01/08/2022 | 22.6             | 0                  | 0.3              |
| 02/08/2022 | 22.1             | 0                  | 0.7              |
| 03/08/2022 | 21.2             | 0                  | 0.5              |
| 04/08/2022 | 20               | 0                  | 0.5              |
| 05/08/2022 | 18.2             | 0                  | 0.7              |
| 06/08/2022 | 18.4             | 0                  | 0.4              |
| 07/08/2022 | 20.5             | 0                  | 0.3              |
| 08/08/2022 | 20.9             | 0                  | 0.3              |
| 09/08/2022 | 22.5             | 0                  | 0.4              |
| 27/09/2023 | 18               | 0                  | 0.8              |
| 28/09/2023 | 17               | 0.76               | 0.9              |
| 29/09/2023 | 17               | 7.37               | 0.3              |
| 21/11/2023 | 9                | 0                  | 0.3              |
| 22/11/2023 | 8                | 0                  | 0.2              |
| 23/11/2023 | 11               | 0                  | 0.4              |
| 24/11/2023 | 7                | 0                  | 0.6              |
| 21/12/2023 | 12               | 0                  | 1.0              |
| 09/12/2024 | 1                | 0                  | 5.0              |



# Appendix D Time History Graphs



#### Figure D.1: LT 1 Time History Graph (28 April – 11 May)











Figure D.3: LT 1 Time History Graph (28 June – 11 July)





Figure D.4: LT 2 Time History Graph (28 April – 12 May)





Figure D.5: LT 2 Time History Graph (15 May – 17 May)





Figure D.6: LT 2 Time History Graph (31 May – 14 June)





Figure D.7: LT 2 Time History Graph (11 July – 25 July)





Figure D.8: LT 3 Time History Graph (28 April – 12 May)











Figure D.10: LT 3 Time History Graph (31 May – 13 June)





Figure D.11: LT 3 Time History Graph (11 July – 25 July)





Figure D.12: LT 4 Time History Graph (28 April – 12 May)





Figure D.13: LT 4 Time History Graph (28 June – 11 July)





Figure D.14: LT 4 Time History Graph (26 July – 9 August)





Figure D.15: LT 5 Time History Graph (17 May – 30 May)





Figure D.16: LT 5 Time History Graph (14 June – 27 June)





Figure D.17: LT 5 Time History Graph (11 July – 25 July)





Figure D.18: LT 6 Time History Graph (17 May – 31 May)





Figure D.19: LT 6 Time History Graph (14 June – 28 June)





Figure D.20: LT 6 Time History Graph (11 July 24 July)





Figure D.21: LT 7 Time History Graph (17 May – 31 May)

















Figure D.24: LT 8 Time History Graph (17 May – 31 May)





Figure D.25: LT 8 Time History Graph (28 June – 10 July)





Figure D.26: LT 8 Time History Graph (26 July – 9 August)





Figure D.27: LT 9 Time History Graph (31 May – 14 June)





Figure D.28: LT 9 Time History Graph (28 June – 11 July)





Figure D.29: LT 9 Time History Graph (26 July – 8 August)





Figure D.30: LT 10 Time History Graph





Figure D.31: LT 11 Time History Graph



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Figure D.32: LT 12 Time History Graph



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Figure D.33: LT 13 Time History Graph





Figure D.34: LT 14 Time History Graph





# Appendix E Attended Survey Results

Table E.1: Attended Sound Survey Results at ST1- 11 July 2022

| Date and Measurement Time | dB L <sub>Aeq,15mins</sub> | dB L <sub>AFmax</sub> | dB L <sub>AF90.15</sub> minutes |
|---------------------------|----------------------------|-----------------------|---------------------------------|
| 11/07/2022 11:00          | 70.0                       | 97.4                  | 59.6                            |
| 11/07/2022 11:15          | 67.6                       | 82.4                  | 58.1                            |
| 11/07/2022 11:30          | 68.2                       | 86.5                  | 58.0                            |
| 11/07/2022 11:45          | 68.2                       | 81.8                  | 55.5                            |
| 11/07/2022 12:00          | 68.0                       | 89.8                  | 57.7                            |
| 11/07/2022 12:15          | 68.8                       | 90.7                  | 58.4                            |
| 11/07/2022 12:30          | 68.0                       | 83.5                  | 58.2                            |
| 11/07/2022 12:45          | 67.6                       | 88.5                  | 56.5                            |
| 11/07/2022 13:00          | 67.6                       | 82.3                  | 58.9                            |
| 11/07/2022 13:15          | 67.9                       | 82.3                  | 56.1                            |
| 11/07/2022 13:30          | 67.3                       | 79.7                  | 56.9                            |
| 11/07/2022 13:45          | 67.3                       | 88.6                  | 57.0                            |

#### Table E.2: Attended Sound Survey Results at ST1 – 9 August 2022

| Date and Measurement Time | dB L <sub>Aeq,15mins</sub> | dB L <sub>AFmax</sub> | dB L <sub>AF90.15</sub> minutes |
|---------------------------|----------------------------|-----------------------|---------------------------------|
| 09/08/2022 11:30          | 65.7                       | 81.3                  | 57.6                            |
| 09/08/2022 11:45          | 68.9                       | 90.7                  | 52.1                            |
| 09/08/2022 12:00          | 70.7                       | 96.8                  | 56.7                            |
| 09/08/2022 12:15          | 67.1                       | 82.4                  | 59.1                            |
| 09/08/2022 12:30          | 68.0                       | 84.6                  | 55.8                            |
| 09/08/2022 12:45          | 66.8                       | 80.1                  | 57.1                            |
| 09/08/2022 13:00          | 67.8                       | 79.1                  | 58.4                            |
| 09/08/2022 13:15          | 70.1                       | 96.2                  | 57.1                            |
| 09/08/2022 13:30          | 70.6                       | 93.3                  | 58.9                            |
| 09/08/2022 13:45          | 72.4                       | 98.4                  | 58.8                            |
| 09/08/2022 14:00          | 66.6                       | 79.8                  | 59.1                            |
| 09/08/2022 14:15          | 66.1                       | 85.5                  | 58.4                            |

#### Table E.3: Attended Sound Survey Results at ST2

| Date and Measurement Time | dB L <sub>Aeq,15mins</sub> | dB L <sub>AFmax</sub> | dB L <sub>AF90.15minutes</sub> |
|---------------------------|----------------------------|-----------------------|--------------------------------|
| 21/12/2023 11:20          | 65.0                       | 79.9                  | 57.5                           |
| 21/12/2023 12:59          | 65.4                       | 85.3                  | 56.9                           |
| 21/12/2023 14:36          | 63.3                       | 78.6                  | 54.1                           |



#### Table E.4: Attended Sound Survey Results at ST3

| Date and Measurement Time | dB L <sub>Aeq,15mins</sub> | dB L <sub>AFmax</sub> | dB L <sub>AF90.15</sub> minutes |
|---------------------------|----------------------------|-----------------------|---------------------------------|
| 21/12/2023 11:45          | 55.7                       | 69.9                  | 49.9                            |
| 21/12/2023 13:49          | 52.6                       | 66.1                  | 49.3                            |
| 21/12/2023 15:56          | 53.1                       | 66.6                  | 49.3                            |
| 09/01/2024 00:21          | 50.0                       | 66.1                  | 44.5                            |
| 09/01/2024 01:27          | 41.9                       | 59.7                  | 39.1                            |
| 09/01/2024 02:32          | 43.0                       | 57.5                  | 39.9                            |

#### Table E.5: Attended Sound Survey Results at ST4

| Date and Measurement Time | dB L <sub>Aeq,15mins</sub> | dB L <sub>AFmax</sub> | dB L <sub>AF90.15minutes</sub> |
|---------------------------|----------------------------|-----------------------|--------------------------------|
| 21/12/2023 12:33          | 62.5                       | 73.7                  | 52.4                           |
| 21/12/2023 14:09          | 61.5                       | 74.9                  | 51.3                           |
| 21/12/2023 16:17          | 63.3                       | 75.3                  | 52.6                           |
| 09/01/2024 00:41          | 53.5                       | 70.8                  | 48.0                           |
| 09/01/2024 01:47          | 49.1                       | 67.2                  | 46.6                           |
| 09/01/2024 02:51          | 52.4                       | 73.5                  | 46.9                           |

#### Table E.6: Attended Sound Survey Results at ST5

| Date and Measurement Time | dB L <sub>Aeq,15mins</sub> | dB L <sub>AFmax</sub> | dB L <sub>AF90.15</sub> minutes |
|---------------------------|----------------------------|-----------------------|---------------------------------|
| 21/12/2023 12:08          | 55.5                       | 80.5                  | 47.5                            |
| 21/12/2023 13:25          | 56.1                       | 78.1                  | 46.6                            |
| 21/12/2023 15:33          | 50.0                       | 65.1                  | 45.0                            |
| 09/01/2024 01:06          | 44.6                       | 56.7                  | 42.8                            |
| 09/01/2024 02:09          | 44.8                       | 59.3                  | 42.6                            |
| 09/01/2024 03:14          | 45.2                       | 63.3                  | 42.0                            |