
Figure D1 Predicted first floor facade levels – Daytime $L_{Aeq}$


Figure D2 Predicted first floor facade levels - Night-time $L_{Aeq}$


Figure D3 Predicted first floor facade levels - Night-time $L_{AFmax}$

## Appendix E – Environmental vibration survey.

A vibration survey was undertaken at two positions on the 20th July 2018 using a fixed vibration monitor in the vertical axis. The measurement positions, one to the north of the site and one to the south of the site, have been summarised in Section 7 of this report.

The first measurement was undertaken at the northern position between from 12:49 until 13:32 on the 20th July 2018. The Dytran 3191A1 accelerometer was attached to a steel mounting block, which was bonded to the existing floor. Distinct 'vibration events' were observed at this position but they were low in magnitude.

The second measurement was undertaken between 13:49 and 14:30 on the 20th July 2018. The Dytran 3191A1 accelerometer was again attached to a steel mounting block, which was bonded to the existing floor. Distinct 'vibration events' were observed at this position but they were low in magnitude.

The equipment used for the survey has been summarised in Table E1.

**Table E1: Instrumentation details for Vibration survey**

| Survey details | Instrumentation description | Manufacturer | Model | Serial Number | Date of Calibration | Certificate Number |
|---|---|---|---|---|---|---|
| Vibration Survey | Vibration Meter | SVAN | 959 | 00841830 | 23/01/2017 | 1701042 |
| | Accelerometer | Dytran | 3191A1 | 1906 | 23/01/2017 | 1701041 |
| | Vibration Calibrator | APT | AT01 | 7001 | 20/01/2017 | 1701033 |

Full measurement results have not been included within this report but are available upon request.

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