



Our ref: AA0355
23rd November 2021

Mike Bagot
Rowlinson Constructions Limited
Gardale House
118b Gatley Road
Gatley, Cheadle SK8 4AU

Transformer @ Burnage Lane, Manchester

Dear Mike,

We issued our earlier report to discharge condition 17 @ Burnage Lane, which relates to the substation noise levels. The last response from Rob Griffin (principle planner) was as follows:

"Further to my correspondence (with Natalie @Pozzoni), I have had confirmation from my EHO colleague that the noise report for the substation is satisfactory and we will just need a verification report post completion to confirm it accords with the noise report. As such I can now move this application towards a decision."

In answer to the above we summarise the findings as follows:

1. Background noise readings in 2015 confirm an LA90 lowest reading of 31.8dB was measured @02.45am.
2. Additional background noise readings from Monday 7th June 2020 between 00:54 and 01:54hrs confirm that LA90 lowest reading of 26dB @01.24am. This was measured during lockdown ie extremely quiet background levels, not reflective of normal conditions.
3. Items 1. And 2 above confirm that we are dealing with background noise levels which will be around 31dB and the lowest was 26dB. 26dB in sound level terms is equivalent to a whisper.
4. The predicted noise levels at the nearest noise sensitive receptors are shown below:

Location / Receiver	Predicted Specific Noise Level at NSR dB(A)	Background Sound Level at Noise Sensitive Receptor dB(A)	Penalty Rating dB	Rating Level dB(A)	Rating level compared with background sound level
208 Burnage Lane	17	26	+2	19	-7
Plot 31, Dahlia House	12	26	+2	14	-12

Table 3: Assessment of noise impact on nearest noise sensitive receptors in accordance with BS4142:2014

5. Our report confirms that the rating noise level at the nearest residential receptor (208 Burnage Lane) is likely to be -7dB below the measured worst-case background sound level (which was measured during lockdown). Noise impact from the substation on apartment 31, Dahlia House is predicted to be -12dB below the background sound level. These readings have had a tonal penalty rating applied. 26dB is equivalent to a whisper and the transformer 'noise' is 7dB below this.
6. Background noise levels out of lockdown are above 32dB @2am and therefore the transformer 'noise' will be 13dB+ below background level. It is impractical to measure a noise 7-13dB below a whisper.
7. Access into the substation has been extremely difficult due to Electricity North West H&S protocols. They will not allow us within the substation itself.
8. The substation noise is significantly lower than the lowest measured background noise levels. The substation noise cannot be heard from outside the enclosure. Measurements can only pick up background noise rather than the substation noise itself, which accords with our earlier findings.
9. Therefore we can confirm that post completion the substation accords with AAUK AA0355 substation noise report.

We trust this satisfies the planner's/EHO requirements.

Yours sincerely,
On Behalf of Azymuth Acoustics UK

Matthew Gibson
Director