

TECHNICAL NOTE	
Project	R2148 Claremont Resource Centre
Subject	LPA Technical Noise Points RFI Response
Author	Simon Webster
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This technical note provides additional information further to responses received from the local authority regarding the verification report issued by Red Acoustics dated 10 July 2024 reference R2148-REP02-JW for the ASHP installation at Claremont Resource Centre, Hulme.

The purpose of this report was to confirm compliance with Planning Condition 4 of consent no. 135707/VO/2022 which is repeated below for clarity:

4) a) Externally mounted ancillary plant, equipment and servicing shall be selected and/or acoustically treated in accordance with a scheme designed so as to achieve a rating level of 5dB (L_{Aeq}) below the typical background (LA_{90}) level at the nearest noise sensitive location. Prior to commencement of the use hereby approved the scheme shall be submitted to and approved in writing by the City Council as local planning authority in order to secure a reduction in the level of noise emanating from the site. The scheme shall be implemented in full before the use commences or as otherwise agreed in writing by the City Council as local planning authority.

b) Prior to the operation of the scheme a verification report shall be submitted to and approved in writing by the City Council as local planning authority to validate that the work undertaken throughout the development conforms to the recommendations and requirements in the approved acoustic report. The report shall also undertake post completion testing to confirm that the noise criteria have been met. Any instances of non-conformity with the recommendations in the report shall be detailed along with any measures required to ensure compliance with the agreed noise criteria.

The report presents the results of a post completion commissioning measurement of the operational ASHP installation and confirmation that the noise criteria have been met through assessment of noise propagation to the nearest noise sensitive receptors based on the measured data.

Comments received are reproduced below and responses provided in red text.

RESPONSES

- *Clarification is required to confirm whether the ASHPs will be switched off at nighttime. The submitted report only provides details of the daytime levels.*

It has been confirmed by Drees & Sommer that the ASHP's as installed at the Claremont Centre only operate during daytime periods (07:00-23:00hrs). There is no night-time operation.

- *Further comment is required to clarify why an on/off test was not conducted for verification and why prediction software was used instead.*

As noted in section 4.0 of the submitted report:

Red Acoustics visited the completed development on 2nd July 2024 to undertake a commissioning measurement with the ASHPs operating. The ASHPs are located within the car park area of Claremont Resource Centre. The noise climate is dominated by road traffic noise from Princess Road, Stratford Road, Old Bailey Street, Rolls Crescent and plant items not associated with Claremont Resource Centre. The ASHP could be heard to be operating adjacent to the enclosure though air traffic, birdsong and activity on local roads obscured the sound from the ASHPs operation further away from the plant area. An environmental noise monitor was therefore located at 5m from the enclosure so that a manned measurement could be taken during a relatively quiet period. The plant was manually caused to operate for the purpose of the commissioning measurement as the plant operates on demand as necessary under normal operating conditions during the daytime period only.

As the plant has been selected to achieve a target noise level below the typical existing background sound level at the nearest noise sensitive property, it is necessary, in line with the guidance in BS4142:2014+A1:2019 to measure the operational plant items adjacent to the plant and demonstrate by calculation that the target criteria have been met. This is necessary as by definition the plant cannot be accurately measured at the nearest noise sensitive property, where the existing noise climate is above that of the plant items.

As noted in section 4.0 of the submitted report, measurements of the ASHP operational noise were taken at a distance of 5m to accurately determine the nearfield ASHP operational noise without contamination from other environmental sources and other plant items not associated with the Claremont resource centre.

As also noted the plant was manually set to operate by overriding the system for the purpose of the commissioning measurement, noting that the plant operates on demand as necessary under normal operating conditions. Whereas the survey was undertaken in July where demand for the ASHP was lower.

The short term overridden operation of the ASHPs and the potential contamination at the receptor location from other sources did not facilitate on / off measurements to be undertaken at the receptors as noted by the Local Authority above.

Therefore, to assess impact, the nearfield measured ASHP plant noise data as taken at 5m was then used to predict impact at the receptors in accordance with BS4142. This is why prediction software was used to verify compliance with the target daytime criterion. The results indicate compliance and no further mitigation is required.