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Our Reference: MRL/100/735.1v1  
17<sup>th</sup> September 2014

Ian Hayton  
ARCHITYPE  
Morocco Store  
1b Leathermarket Steet  
London  
SE1 3JA

Dear Ian,

**Re: Camden Centre for Learning, Camden, London : Rooftop Plant Noise Assessment**

Further to your recent request regarding the above matter, I am writing with our acoustic assessment of the proposed rooftop condenser unit to cool the server room at the above site.

**Background Noise Levels**

Noise level readings were carried out opposite the front of the school site along Agincourt Road on Tuesday 9<sup>th</sup> September 2014 between 1am – 2am in order to obtain the existing ambient noise climate at the nearest residential properties to the proposed rooftop plant during the early hours of the morning.

It was observed during the noise survey that road traffic noise is the main noise source in the area followed by intermittent aircraft noise.

The noise measurements were taken over 4 no. consecutive 15-minute periods outside the dwellings directly opposite the school building elevation facing Agincourt Road and the average result was 45 dB L<sub>Aeq</sub>(30 minutes).

The noise levels were recorded using a Rion NA-28 Type 1 sound level meter (serial no. 00370312). The meter was mounted on a tripod with the microphone approximately 1.5m above ground level and a windshield was fitted to the microphone at all times. The calibration of the meter was checked before and after the survey with no variation in level noted.

The distance from the location of the proposed plant and the nearest affected dwellings opposite the school site on the other side of Agincourt Road is approximately 25m distance.

The results of the noise survey are shown in Table 1 below:-

**Table 1: Summary of Ambient Noise Levels at Nearest Dwellings**

Measurement Location	Time (Hours)	Noise Levels, dB(A)		
		L <sub>Aeq</sub>	L <sub>A90</sub>	L <sub>Amax</sub>
In Agincourt Road Outside Nearest Residential Properties	01:00 – 01:15	46	40	65
	01:15 – 01:30	45	40	62
	01:30 – 01:45	45	39	64
	01:45 – 02:00	45	38	67

### Plant Noise Levels

The proposed item of plant is to be located at the rear of the premises on a small area of flat roof, as shown in the plan at the end of this report.

Based on the following noise emission data of the plant provided by the manufacturer, we have calculated the total noise level with plant operating continuously over any given 5-minute period:-

- Mitsubishi MUZ-HJ35VA: 50 dB(A) at 3m distance

The total predicted noise level at 25m distance to the nearest dwellings is 27 dB(A), allowing 5 dB attenuation for screening by the building itself and attenuation of sound over distance. The calculation is shown at the end of this report.

This noise impact level is 11 dB(A) lower than the lowest measured background noise level of 39 dB L<sub>A90</sub> at the nearest dwellings and is a positive indication that complaints are unlikely in accordance with BS 4142 : 1997.

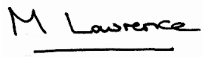
## Summary

An assessment has been carried out of the noise impact of the proposed building services plant at the Agincourt House site, Camden Centre for Learning, Camden, London.

The results of the assessment indicate that the plant Noise Rating Level provides a positive indication that complaints are unlikely in accordance with BS 4142 : 1997 and is within acceptable limits.

If you have any queries with this report, require additional information or wish to discuss anything further then please do not hesitate to contact me.

Yours sincerely

A handwritten signature in black ink that reads "M. Lawrence". The signature is written in a cursive style and is positioned above a short horizontal line.

Matthew Lawrence MSc MIOA  
Principal Consultant

