ACOUSTIC STATEMENT :

Measure of the impact of revised cooling units to rear elevation:

As can be seen in the table below during our baseline noise measurement (included in the approved Planning Application) we have recorded a lowest LA90 of 62dBA at the back of the RCR building. Such high level of background LA90 is chiefly due to several existing M&E plant of the surrounding buildings already operational at that location.

Date	LAeq	LA90
(2010/12/08 11:50:55.00)	62.8	62.0
(2010/12/08 12:05:59.00)	62.8	62.0
(2010/12/08 12:21:04.00)	62.9	62.5

Assessment Method: BS4142:1997 Method for Rating Industrial Noise Affecting Mixed Residential and Industrial Areas

British Standard BS4142:1997 'Method of Rating Industrial Noise Affecting Mixed Residential and Industrial Areas' can be used to assess whether noise sources of an industrial nature are likely to give rise to complaints from people residing in nearby dwellings.

The standard describes a method for assessing whether the noise levels from factories, or industrial premises, or fixed installations, or sources of an industrial nature in commercial premises are likely to give rise to complaints from people residing in the affected building. The method is not suitable for assessing the noise measured inside buildings or when the background and rating noise levels are both very low (i.e. below 30 dBA):

The procedure in BS4142 for assessing the likelihood of complaints is to compare the predicted noise level from the source, the "specific noise level", with the background noise level. The likelihood of noise provoking complaints is assessed by subtracting the background noise level from the rating noise level. BS4142 states:

"A difference of around +10dB or higher indicates that complaints are likely. A difference of around +5dB is of marginal significance. A difference of -10dB is a positive indication that complaints are unlikely."

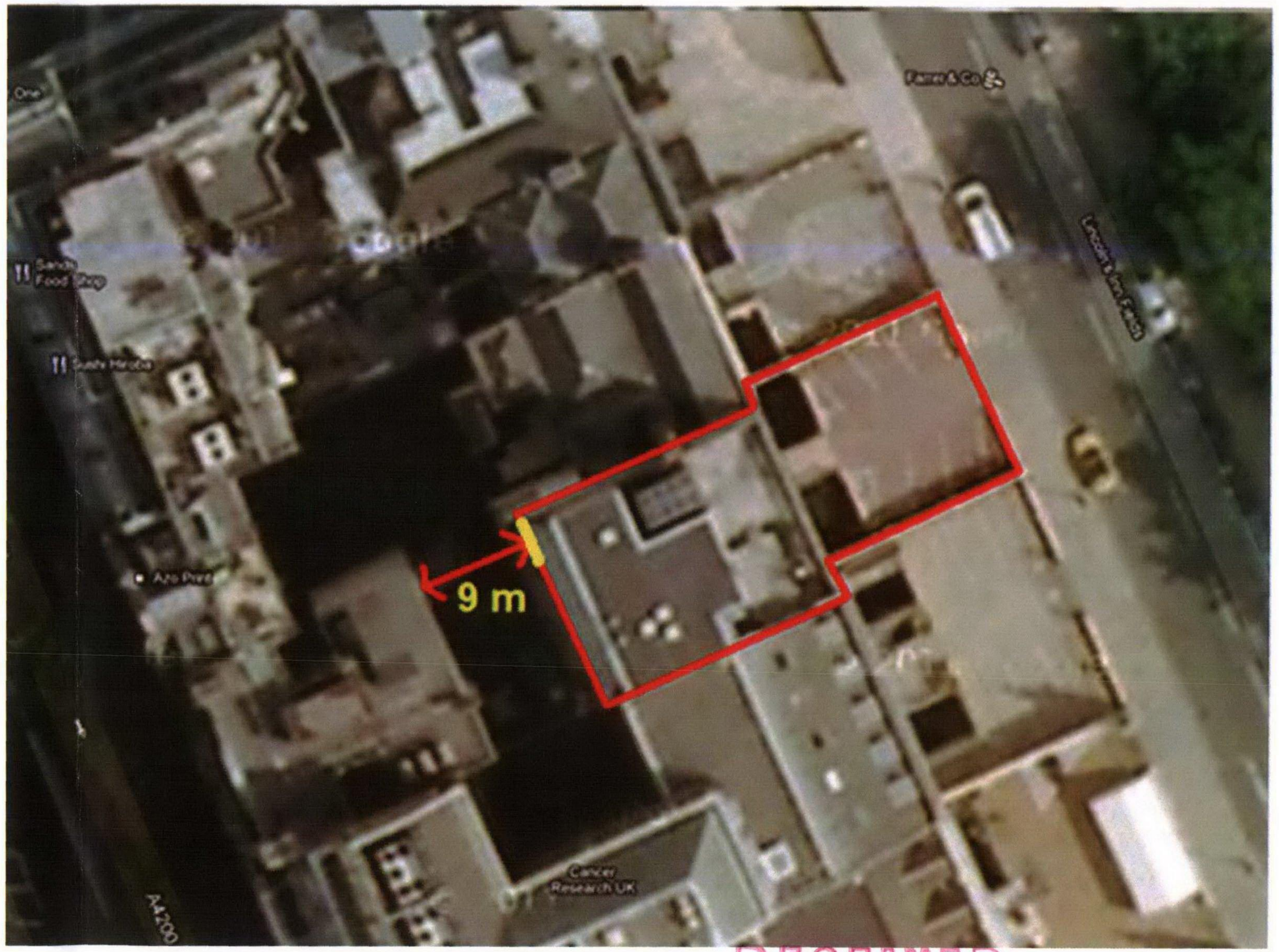
The standard also notes that "The greater the difference, the greater the likelihood of complaints."

BS4142, also states that if any of the following features occur, or are expected to be present for each noise source then a further 5dB reduction is required at that source:

- the noise contains a distinguishable, discrete, continuous note (whine, hiss, screech, etc.);
- the noise contains distinct impulses (bangs, clicks, clatters, or hums);
- the noise is irregular enough to attract attention.

Camden Council's Environmental Health Officer (EHO) has specified that the specific noise level should be 5dBA below the prevailing background at the nearest sensitive receptor.

As discussed the location of the new set of cooling units is identified in figure below. As can be seen from the aerial photograph, the closest receptor locations are the windows to the rear of 63 Lincoln's Inn Fields. These are approximately 9m away from the location of the proposed cooling units.



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