

Methodology for calculating PM10 and NOx per km²
RBKC Environmental Health
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The Submission Core Strategy for the Royal Borough of Kensington and Chelsea quotes PM10 and NOx emissions for 2006 in emissions per km². This is to compare PM10 and NOx emissions with other inner London boroughs, which are all generally larger in size than the Royal Borough.

The comparison data for the inner London borough average PM10 and NOx emissions per km² in 2006 was calculated using data from the London Atmospheric Emissions Inventory 2006 (LAEI 2006) database. The LAEI 2006 classifies the following boroughs as central or inner London, which were used: Haringey, Barnet, Camden, Islington, Hackney, Waltham Forest, Newham, Redbridge, Tower Hamlets, Barking and Dagenham, Westminster, Hammersmith and Fulham, Kensington and Chelsea, Southwark, Lewisham, Wandsworth, Lambeth and Richmond. These boroughs are allocated an area of approximately 332km² within the database. The Royal Borough is allocated an area of 11km² within the database.

The average inner London emissions per km² are calculated by adding the emissions for these borough's and dividing this figure by 332. This is shown in the following table:

RBKC	NOx	PM10
Total emissions per annum (tonnes) (LAEI 2006)	878.47	35.35
Emissions per square kilometre (divided by 11km ²)	79.86	3.21
Inner and central London Boroughs		
Total emissions per annum (tonnes) (LAEI 2006)	17100.47	802.15
Emissions per square kilometre (divided by 332km ²)	51.51	2.42

Given the presentation of the data in the LAEI 2006, this is the most accurate way of calculating PM10 and NOx per km².

Information on the LEAI is available from the GLA website at:

http://legacy.london.gov.uk/mayor/environment/air_quality/research/emissions-inventory.jsp

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