

**14 August 2014**

**Air pollution levels revealed at Mayor of London's 187 Air Quality Focus Areas for first time**

**Information obtained using powerful European access to environmental information laws despite obstruction by Defra. Mayor continues to hide more precise information by making it inaccessible to anyone without access to complex and expensive computer software**

**Every London borough is listed among the Mayor's Air Quality Focus Areas. Highest modelled levels of air pollution are: over three times the World Health Organisation (WHO) guideline and legal limit for nitrogen dioxide (NO<sub>2</sub>); and over twice the WHO guideline for dangerous airborne particles (PM<sub>2.5</sub>). Diesel exhaust is the main local source of such air pollution**

**Clean Air in London urges the Mayor to publish estimated actual concentrations of NO<sub>2</sub>, PM<sub>2.5</sub> and PM<sub>10</sub> at each Air Quality Focus Area within two months after each calendar year end so Londoners can assess his progress. His claims of modelled emission reductions are meaningless**

Clean Air in London (CAL) has obtained from the Department for Environment Food and Rural Affairs (Defra) modelled annual mean concentrations of nitrogen dioxide (NO<sub>2</sub>) and dangerous airborne particles (PM<sub>2.5</sub> and PM<sub>10</sub>) in 2012 at or nearest to the Mayor's 187 Air Quality Focus Areas in London. This information has never been published before. The Mayor has repeatedly refused to publish the more precise information he holds.

The Mayor selected 187 Air Quality Focus Areas in London by July 2013 <sup>Note 1</sup>. These are locations that not only exceed the European Union annual mean limit value for NO<sub>2</sub> but are also locations with high human exposure. The Focus Areas were defined to address concerns raised by boroughs within the Local Air Quality Management review process and forecasted air pollution trends. It is not an exhaustive list of London's hotspot locations, but where the Greater London Authority believes the problem to be most acute. There is some overlap with the 50 worst road links for annual mean NO<sub>2</sub> concentrations in 2012 found by The Sunday Times (all of which are in London).

The Mayor repeatedly refused requests from Jenny Jones AM (Green), Darren Johnson AM (Green) and Stephen Knight AM (Liberal Democrat) to disclose air pollution levels at the worst locations in London and/or at the Air Quality Focus Areas <sup>Note 4</sup>. On 26 February 2014, CAL therefore asked Defra for data on air pollutants at these locations. CAL's request was originally refused but the information has now been released after CAL modified its request slightly and called for an internal review of Defra's refusal decision on 23 March. Defra missed the two month statutory deadline to complete the internal review and failed to respond until 22 July 2014. Defra has apologised for this failing. Defra says that its modelled air pollution concentrations at 47 of the 187 locations may not be representative of levels at the Air Quality Focus Area because they are more than 50 metres from it.

The Mayor's modelling of air pollution in London was carried out by King's College London using a 20 metre square grid. In contrast, Defra reports the air pollution values for 1 kilometre grid squares and road links. Defra has therefore provided the air pollution concentrations at the road links at or nearest to each of the 187 Air Quality Focus Areas. These concentrations are estimated based on computer modelling of emissions and may differ significantly from actual air pollution

concentrations. Oxford Street is a good example, where Defra's modelled annual mean concentration of NO<sub>2</sub> is 92 µg/m<sup>3</sup> for 2012 compared to the actual average monitored concentration of 135 µg/m<sup>3</sup> so far in 2014. We know already from top scientists at King's College London that Oxford Street may have the highest officially monitored levels of NO<sub>2</sub> anywhere in the world (and it is the only 'modern' air pollution gas regulated unlike particles which are regulated as a 'lump').

The Defra data shows there are staggeringly high levels of air pollution at these locations with high human exposure. Levels of NO<sub>2</sub> are over three times the World Health Organisation (WHO) guideline and EU legal limit and PM<sub>2.5</sub> over twice the WHO guideline. The main local source of air pollution at these hotspots is almost certainly diesel exhaust.

This information request has highlighted the importance of asking precise questions of public authorities that will require little or no judgement to answer. Campaigners might try asking Defra ([helpline@defra.gsi.gov.uk](mailto:helpline@defra.gsi.gov.uk)) or Transport for London ([foi@tfl.gov.uk](mailto:foi@tfl.gov.uk)) or the Mayor ([mayor@london.gov.uk](mailto:mayor@london.gov.uk)) in future for:

*"Please tell me the [insert number e.g. 50] highest modelled annual mean concentrations held by [Defra] for each of nitrogen dioxide (NO<sub>2</sub>) and dangerous airborne particles (PM<sub>2.5</sub> and PM<sub>10</sub>) in [insert local authority name or other place] for the latest available calendar year together with the description and grid reference for each location e.g. a named road link."*

Defra is allowed up to 40 working days to respond to such requests.

Clean Air in London has been advised in this matter by barristers Gerry Facenna and Julianne Morrison of Monckton Chambers.

## Quotes

Simon Birkett, Founder and Director of Clean Air in London, said:

"It is shocking that the Mayor continues to hide air pollution levels at the most acute locations and that Defra has taken five months to release data for the nearest locations it holds.

"Air pollution levels at these locations are up to two and three times legal limits and World Health Organisation guidelines. Diesel exhaust is almost certainly the main local source of this air pollution.

"Boris misleads people by talking about reductions in computer modelled emissions. Actual air pollution concentrations, used for setting health and legal limits, are the real test. Clean Air in London urges the Mayor to publish estimated actual concentrations of NO<sub>2</sub>, PM<sub>2.5</sub> and PM<sub>10</sub> at each Air Quality Focus Area within two months after each calendar year end so Londoners can assess his progress. His claims of computer modelled emission reductions are meaningless.

"There are scary rumours the Mayor may be testing or using 'geofencing' technology to make vehicles switch to electric mode or other measures to reduce air pollution near monitors used to report legal breaches and warn of smog episodes including within Air Quality Focus Areas e.g. Marylebone

Road. If so, it would seem he learned nothing from the outrage he provoked by spaying glue on roads by these monitors before the Olympics.”

“Clean Air in London encourages campaigners to ask Defra, Transport for London or the Mayor for air pollution information for their local area.

“Last but not least, Clean Air in London wishes to thank barristers Gerry Facenna and Julianne Morrison of Monckton Chambers for their advice in this matter.”

ENDS

## Notes

### 1. Air Quality Focus Areas

<http://data.london.gov.uk/datastore/package/air-quality-focus-areas>

### 2. Selection of Air Quality Focus Areas

The process for selecting the Air Quality Focus areas is described here:

- i. Baseline air quality 2011
- ii. Analyse air quality concentrations
- iii. Check for exposure
- iv. Consider potential local characteristics
- v. Cross-border check with boroughs' LAQM findings
- vi. Consider predicted air pollution trends
- vii. Define Air quality Focus Areas

### 3. Health impacts and legal limits

<http://erj.ersjournals.com/content/early/2014/02/20/09031936.00114713.abstract>

The legal limit for NO<sub>2</sub> is an annual mean of 40 micrograms per cubic metre (µg/m<sup>3</sup>). ClientEarth is currently pursuing legal action against the Government in the Supreme Court to force it to comply with this limit. Separately the European Commission has sent the UK a first written warning for breaching legal limits for NO<sub>2</sub> every year since they entered into force in 2010. More at:

<http://www.clientearth.org/201407102597/news/press-releases/uk-will-miss-air-pollution-deadline-by-over-20-years-fails-to-suppress-information-in-eu-court-2597>

### 4. Questioning the Mayor

Search on “Air Quality Focus Areas” i.e. surrounded by inverted commas.

<http://www.london.gov.uk/mayor-assembly/london-assembly/questioning-the-mayor>

### 5. Top 50 worst roads for NO<sub>2</sub> – Sunday Times and ITV

[http://www.thesundaytimes.co.uk/sto/news/uk\\_news/National/article1379029.ece](http://www.thesundaytimes.co.uk/sto/news/uk_news/National/article1379029.ece)

<http://www.itv.com/news/london/2014-02-24/fff/>

**6. Top 10 worst roads for diesel exhaust**

<http://cleanairinlondon.org/sources/carcinogenic-diesel-exhaust-disclosed-for-every-significant-road-in-london/>

**7. Mayor claims reductions in emissions at Air Quality Focus Areas**

<https://www.tfl.gov.uk/info-for/media/press-releases/2014/july/world-s-largest-bus-retrofit-programme-completed>

**8. Oxford Street actual monitored concentrations so far in 2014 and worst in the world**

[http://www.londonair.org.uk/london/asp/publicstats.asp?region=0&site=WM6&la\\_id=&network=All&postcode=&MapType=Google&VenueCode=](http://www.londonair.org.uk/london/asp/publicstats.asp?region=0&site=WM6&la_id=&network=All&postcode=&MapType=Google&VenueCode=)

<http://www.londonair.org.uk/london/asp/news.asp?NewsId=OxfordStHighNO2&StartIndex=1>

**9. Geofencing**

<http://taxi-news.co.uk/?p=428>

<http://cityclimateleadershipawards.com/2014-project-london-taxi/>

“Geofencing – for the first time London is using GPS-based geofencing as a mechanism to switch hybrid vehicles to its zero emission drive cycle.”

**Top 10 annual mean concentrations of NO<sub>2</sub> and PM<sub>2.5</sub> for road links at or closest to the Mayor's Air Quality Focus Areas**

Mayor's Air Quality Focus Area	Defra concentrations (micrograms per cubic metre)	Distance from Air Quality Focus Area (metres)
<b>Nitrogen dioxide (NO<sub>2</sub>)</b>		
Park Lane, Marble Arch to Hyde Park Corner	135	9
Marylebone Road from Edgware Road to Euston/King's Cross Junction	113	13
Blackwall A13 East India Dock Road/Aspen Way/Blackwall Tunnel	110	6
The Strand from Charing Cross to Fleet Street including Aldwych	103	50
New Cross Gate and New Cross (Road)	101	82*
Acton A40 North Acton rail/Gypsy Corner/Sandy Circus/White City (Western Avenue)	96	31
Waterloo Road	94	15
Vauxhall Cross (Bridgefoot)	93	1
Oxford Street from Marble Arch to Bloomsbury	92	6
Farringdon Road and New Bridge Street at Blackfriars	92	7
<b>Fine particles (PM<sub>2.5</sub>)</b>		
Park Lane, Marble Arch to Hyde Park Corner	22	6
Blackwall A13 East India Dock Road/Aspen Way/Blackwall Tunnel	22	9
Hanger Lane Twyford Abbey Road (North Circular Road)	21	15
A4 Cromwell Road from Talgarth/Earls Court/Gloucester Rd/Thurloe Place/Knightsbridge (West Cromwell Road)	21	5
Acton A40 North Acton rail/Gypsy Corner/Sandy Circus/White City (Western Avenue)	21	31
Marylebone Road from Edgware Road to Euston/King's Cross Junction	21	13
A406 Henleys Corner (Falloden Way (Barnet by-pass))	20	29
A406 North Circular from Stonebridge Park to Gresham Road	20	4
Neasden Junction inc Neasden Lane/Dudden Hill (North Circular Road)	20	4
Vauxhall Cross (Bridgefoot)	20	7

**Top 10 annual mean concentrations of NO<sub>2</sub> and PM<sub>2.5</sub> for road links at or closest to the Mayor's Air Quality Focus Areas**

<b>Particles (PM<sub>10</sub>)</b>		
Blackwall A13 East India Dock Road/Aspen Way/Blackwall Tunnel	34	6
Park Lane, Marble Arch to Hyde Park Corner	33	9
Hanger Lane Twyford Abbey Road (North Circular Road)	32	15
A4 Cromwell Road from Talgarth/Earls Court/Gloucester Rd/Thurloe Place/Knightsbridge (West Cromwell Road)	32	5
Acton A40 North Acton rail/Gypsy Corner/Sandy Circus/White City (Western Avenue)	32	31
Marylebone Road from Edgware Road to Euston/King's Cross Junction	32	13
A406 North Circular Edmonton A1010 and Fore Street A1010 (Angel Road, North Circular Road)	31	29
A12 Eastern Avenue at Wanstead (east of Tunnel) (Kingfisher Avenue)	31	4
A406 Henleys Corner (Falloden Way (Barnet bypass))	30	4
A406 North Circular from Stonebridge Park to Gresham Road (North Circular Road)	30	7

\*May not be representative of concentrations at the nearby Air Quality Focus Area