***Borough Name* Air QualityAnnual Status Report for 2016**

**Date of publication: *xxxxxx***

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| --- |
| ***INSTRUCTIONS****This is the full Annual Status Report for submission to the GLA by 3rd April 2017**The red italics indicate where boroughs need to fill in information.**Blue italics are instructions and/or placeholders further information.**This box and all italics should be deleted when the document is finished.* |



This report provides a detailed overview of air quality in *Borough Name* during 2016. It has been produced to meet the requirements of the London Local Air Quality Management statutory process[[1]](#footnote-1).

**Contact details**

*AQ officer/department contact details*

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# Abbreviations

|  |  |
| --- | --- |
|  |  |
| AQAP | Air Quality Action Plan |
| AQMA | Air Quality Management Area |
| AQO | Air Quality Objective |
| BEB | Buildings Emission Benchmark |
| CAB | Cleaner Air Borough |
| CAZ | Central Activity Zone |
| EV | Electric Vehicle |
| GLA | Greater London Authority |
| LAEI | London Atmospheric Emissions Inventory |
| LAQM | Local Air Quality Management |
| LLAQM | London Local Air Quality Management |
| NRMM | Non-Road Mobile Machinery |
| PM10 | Particulate matter less than 10 micron in diameter |
| PM2.5 | Particulate matter less than 2.5 micron in diameter |
| TEB | Transport Emissions Benchmark |
| TfL | Transport for London |

|  |
| --- |
| ***INSTRUCTIONS****This summary report, compiled and published in 2016, reports on air quality in your borough during 2016.**The red italics indicate where boroughs need to fill in information.**Blue italics are instructions and/or further information.**All italics and this box should be deleted when the document is finished.* |

Table A. Summary of National Air Quality Standards and Objectives

| Pollutant | Objective (UK)  | Averaging Period | Date1 |
| --- | --- | --- | --- |
| Nitrogen dioxide - NO2 | 200 g m-3 not to be exceeded more than 18 times a year | 1-hour mean | 31 Dec 2005 |
| 40 g m-3 | Annual mean | 31 Dec 2005 |
| Particles - PM10 | 50 g m-3 not to be exceeded more than 35 times a year | 24-hour mean | 31 Dec 2004 |
| 40 g m-3 | Annual mean | 31 Dec 2004 |
| Particles - PM2.5 | 25 g m-3 | Annual mean | 2020 |
| Target of 15% reduction in concentration at urban background locations | 3 year mean  | Between 2010 and 2020 |
| Sulphur Dioxide (SO2) | 266 μg m-3 not to be exceeded more than 35 times a year | 15 minute mean | 31 Dec 2005 |
| 350 μg m-3 not to be exceeded more than 24 times a year | 1 hour mean | 31 Dec 2004 |
| 125 μg m-3 mot to be exceeded more than 3 times a year | 24 hour mean | 31 Dec 2004 |

Note: 1by which to be achieved by and maintained thereafter

# 1. Air Quality Monitoring

*Within this section it is obligatory to complete all tables with monitoring data if you have monitors for the specified pollutants. It is not obligatory to include narrative on trends or any graphs, although you are encouraged to do so if you wish.*

1.1 Locations

Table B. Details of Automatic Monitoring Sites for 2016

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Site ID** | **Site Name** | **X (m)** | **Y (m)** | **Site Type** | **In AQMA?** | **Distance from monitoring site to relevant exposure****(m)** | **Distance to kerb of nearest road (N/A if not applicable)****(m)** | **Inlet height****(m)** | **Pollutants monitored** | **Monitoring technique** |
| *A1 (example)* | *XX* | *500500* | *100100* | *Roadside* | *Y/N* | *10* | *10* | *1.5* | *NO2, PM10* | *Chemiluminescent;**FDMS* |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

Table C. Details of Non-Automatic Monitoring Sites for 2016

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Site ID** | **Site Name** | **X (m)** | **Y (m)** | **Site Type** | **In AQMA?** | **Distance from monitoring site to relevant exposure****(m)** | **Distance to kerb of nearest road (N/A if not applicable)****(m)** | **Inlet height** **(m)** | **Pollutants monitored** | **Tube co-located with an automatic monitor?** **(Y/N)** |
| *DT1 (example)* | *High Street* | *500500* | *100100* | *Roadside* | *Y/N* | *10* | *10* | *1.5* | *NO2* | *Y/N* |
|  |  |  |  |  |  |  |  |  |  |  |

1.2 Comparison of Monitoring Results with AQOs

The results presented are after adjustments for “annualisation” and for distance to a location of relevant public exposure, the details of which are described in Appendix A.

Table D. Annual Mean NO2 Ratified and Bias-adjusted Monitoring Results (g m-3)

| **Site ID** | **Site type** | **Valid data capture for monitoring period % a** | **Valid data capture 2016 % b** | **Annual Mean Concentration (μgm-3)** |
| --- | --- | --- | --- | --- |
| **2010 c** | **2011c** | **2012 c** | **2013c** | **2014 c** | **2015 c** | **2016 c** |
| *A1 (example)* | *Automatic* | *95* | *95* | ***61.0*** | ***48.1*** | ***45.0*** | ***44.1*** | ***43.2*** | *35.1* | *26.3* |
| *A2* | *Diffusion tube* |  |  |  |  |  |  |  |  |  |

Notes: Exceedance of the NO2 annual mean AQO of 40 μgm-3 are shown in **bold**.

NO2 annual means in excess of 60 μg m-3, indicating a potential exceedance of the NO2 hourly mean AQS objective are shown in bold and underlined.

a data capture for the monitoring period, in cases where monitoring was only carried out for part of the year
b data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%)

c Means should be “annualised” in accordance with LLAQM Technical Guidance, if valid data capture is less than 75%

*Option to include some narrative on the 7 year trend here*

Table E. NO2 Automatic Monitor Results: Comparison with 1-hour Mean Objective

| **Site ID** | **Valid data capture for monitoring period % a** | **Valid data capture 2016 % b** | **Number of Hourly Means > 200 μgm-3** |
| --- | --- | --- | --- |
| **2010 c** | **2011c** | **2012 c** | **2013c** | **2014 c** | **2015 c** | **2016 c** |
| *A1 (example)* | *95* | *95* | *10* | *19* | *11* | *12* | *15* | *19* | *11* |
|  |  |  |  |  |  |  |  |  |  |

Notes: Exceedance of the NO2 short term AQO of 200 μgm-3 over the permitted 18 days per year are shown in **bold**.
a data capture for the monitoring period, in cases where monitoring was only carried out for part of the year
b data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%)

c Means should be “annualised” in accordance with LLAQM Technical Guidance, if valid data capture is less than 75%

*Option to include some narrative on the 7 year trend here*

**Table F. Annual Mean PM10 Automatic Monitoring Results (g m-3)**

| **Site ID** | **Valid data capture for monitoring period % a** | **Valid data capture 2016 % b** | **Annual Mean Concentration (μgm-3)** |
| --- | --- | --- | --- |
| **2010 c** | **2011c** | **2012 c** | **2013c** | **2014 c** | **2015 c** | **2016 c** |
| *A1 (Example)* | *95* | *95* | *35* | *37* | *35* | *37* | *35* | *37* | ***41*** |
|  |  |  |  |  |  |  |  |  |  |

Notes: Exceedance of the PM10 annual mean AQO of 40 μgm-3 are shown in **bold**.
a data capture for the monitoring period, in cases where monitoring was only carried out for part of the year
b data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%)

c Means should be “annualised” in accordance with LLAQM Technical Guidance, if valid data capture is less than 75%

*Option to include some narrative on the 7 year trend here*

Table G. PM10 Automatic Monitor Results: Comparison with 24-Hour Mean Objective

| **Site ID** | **Valid data capture for monitoring period % a** | **Valid data capture 2016 % b** | **Number of Daily Means > 50 μgm-3** |
| --- | --- | --- | --- |
| **2010 c** | **2011c** | **2012 c** | **2013c** | **2014 c** | **2015 c** | **2016 c** |
| *A1 (Example)* | *95* | *95* | *10* | ***36*** | *10* | ***36*** | *10* | ***36*** | *11* |
|  |  |  |  |  |  |  |  |  |  |

Notes: Exceedance of the PM10 short term AQO of 50 μg m-3 over the permitted 35 days per year or where the 90.4th percentile exceeds 50 μg m-3 are shown in **bold**. Where the period of valid data is less than 90% of a full year, the 90.4th percentile is shown in brackets after the number of exceedances.
a data capture for the monitoring period, in cases where monitoring was only carried out for part of the year
b data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%)

c Means should be “annualised” in accordance with LLAQM Technical Guidance, if valid data capture is less than 75%

*Option to include some narrative on the 7 year trend here*

Table H. Annual Mean PM2.5 Automatic Monitoring Results (g m-3) *(if available, if not this section can be deleted)*

| **Site ID** | **Valid data capture for monitoring period % a** | **Valid data capture 2016 % b** | **Annual Mean Concentration (μgm-3)** |
| --- | --- | --- | --- |
| **2010 c** | **2011c** | **2012 c** | **2013c** | **2014 c** | **2015 c** | **2016 c** |
| *A1 (Example)* | *95* | *95* | *35* | *37* | *35* | *37* | *35* | *37* | ***41*** |
|  |  |  |  |  |  |  |  |  |  |

Notes: Exceedance of the PM2.5 annual mean AQO of 25 μgm-3 are shown in **bold**.
a data capture for the monitoring period, in cases where monitoring was only carried out for part of the year
b data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%)

c Means should be “annualised” in accordance with LLAQM Technical Guidance, if valid data capture is less than 75%

*Option to include some narrative on the 7 year trend here*

Table I. SO2 Automatic Monitor Results for 2015: Comparison with Objectives *(if available, if not this section can be deleted)*

| **Site ID** | **Valid data capture for monitoring period % a** | **Valid data capture 2016 % b** | **Number of: c** |
| --- | --- | --- | --- |
| **15-minute means > 266 μgm-3** | **1-hour mean > 350 μgm-3** | **24-hour mean > 125 μgm-3** |
| *A1 (Example)* | *95* | *95* | *10* | ***36*** | *11* |
|  |  |  |  |  |  |

Exceedances of the SO2 AQOs are shown in **bold** (15-min mean = 35 allowed a year, 1-hour mean = 24 allowed a year, 24-hour mean = 3 allowed / year)
a data capture for the monitoring period, in cases where monitoring was only carried out for part of the year
b data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%)

c Means should be “annualised” [as in Box 3.2 of TG(09)](http://laqm.defra.gov.uk/technical-guidance/index.html?d=page=38) (<http://laqm.defra.gov.uk/technical-guidance/index.html?d=page=38>), if valid data capture is less than 75%

*The table should address whether there are:*

* *>35 15-minute means greater than 266μgm-3? (Or if the period of valid data is less than 90% of a full year, is the 99.9th percentile of 15-minute means greater than this value)*
* *>24 1-hour means greater than 350μgm-3? (Or if the period of valid data is less than 90% of a full year, is the 99.7th percentile of 1-hour means greater than this value?)*
* *>3 24-hour means greater than 125μgm-3? (Or if the period of valid data is less than 90% of a full year, is the 99.2th percentile of 24-hour means greater than this value?)*

 *Ensure that the monitoring site locations are representative of relevant public exposure.*

*Exceedances of the relevant SO2 AQS objectives (or relevant percentiles if data capture is less than 90% for a full year) should be highlighted in* ***bold****.*

# 2. Action to Improve Air Quality

Table J. Commitment to Cleaner Air Borough Criteria *This section is voluntary, although you are required to complete it if you wish to maintain your Cleaner Air Borough status and receive your Cleaner Air Borough Logo for use on your website/materials. Sufficient detailed evidence must be provided – please see the “Evidence” column for more information.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Theme** | **Criteria** | **Achieved (Y/N)** | **Evidence*****You will be assessed on your progress with addressing air pollution at the local level since the previous year.******Please provide at least one example for each measure.*** ***Examples must be specific, with details i.e. they must include the specific location and the date of the intervention/s.*** ***Example projects must have been delivered in 2016 (or early 2017).*** |
| **1. Political leadership** | ***1.a*** | Pledged to become a Cleaner Air for London Borough (at cabinet level) by taking significant action to improve local air quality and signing up to specific delivery targets.  | *Y* | *No evidence required* |
| ***1.b*** | Provided an up-to-date Air Quality Action Plan (AQAP), fully incorporated into LIP funding and core strategies. | *Y* | *e.g The 2015 AQAP is available online at XX**Incorporated into LIP process/public health via…* |
| **2. Taking action** | **2.a** | Taken decisive action to address air pollution, especially where human exposure and vulnerability (e.g. schools, older people, hospitals etc) is highest. | *N* | *e.g. schools/public health project* |
| **2.b** | Developed plans for business engagement (including optimising deliveries and supply chain), retrofitting public buildings using the RE:FIT framework, integrating no engine idling awareness raising into the work of civil enforcement officers, (etc etc). | *N* | *e.g. business engagement project* |
| **2.c** | Integrated transport and air quality, such as: improving traffic flows on borough roads to reduce stop/start conditions, improving the public realm for walking and cycling, and introducing traffic reduction measures. | *N* | *e.g. transport project which has included aq additions/amendments* |
| **2.d** | Made additional resources available to improve local air quality, including by pooling its collective resources (s106 funding, LIPs, parking revenue, etc). | *N* | *Summarise any additional funding sources* |
| **3. Leading by example** | **3.a** | Invested sufficient resources to complement and drive action from others. | *N* | *e.g. two full time AQ officers and budget of £x* |
| **3.b** | Maintained an appropriate monitoring network so that air quality impacts within the borough can be properly understood | *Y* | *e.g. all existing AQ monitors maintained*  |
| **3.c** | Reduced emissions from council operations, including from buildings, vehicles and all activities.  | *Y* |  *Evidence of any reduction in council emissions if known*  |
| **3.d** | Adopted a procurement code which reduces emissions from its own and its suppliers activities, including from buildings and vehicles operated by and on their behalf (e.g. rubbish trucks). | *Y* | *e.g. 50% of refuse vehicles meet Euro X standards and emissions of NOx are predicted to have decreased by XX%*  |
| **4. Using the planning system** | **4.a** | Fully implemented the Mayor's policies relating to air quality neutral, combined heat and power and biomass. | *Y* | *e.g. all approved planning applications must meet the Mayor’s requirements relating to AQ neutral and CHPs* |
| **4.b** | Collected s106 from new developments to ensure air quality neutral development, ***where possible*** . | *N* | *Amounts agreed/collected (if none has been collected please state. This is not a mandatory criteria)* |
| **4.c** | Provided additional enforcement of construction and demolition guidance, with regular checks on medium and high risk building sites.  | *Y* | *e.g. each site is visited by a member of the council once a month to ensure policies are being met* |
| **5. Integrating air quality into the public health system** | **5** | Included air quality in the borough’s Health and Wellbeing Strategy and/or the Joint Strategic Needs Assessment. | *Y* | *e.g. Health and Wellbeing Strategy includes air quality as a key theme and can be found at* [*www.example*](http://www.example)*...* |
| **6. Informing the public**  | **6.a** | Raised awareness about air quality locally. | *Y* | *e.g. airTEXT promotion or other awareness raising* |

2.1 Air Quality Action Plan Progress

Table K provides a brief summary of *Borough Name* progress against the Air Quality Action Plan, showing progress made this year. New projects which commenced in 2016 are shown at the bottom of the table (*where applicable*).

Table K. Delivery of Air Quality Action Plan Measures

*Please complete the table below or add your own table if preferred. Reporting on progress against your action plan is mandatory.*

*If you have any new actions related to the new PM2.5 role, please include them in the table below, if you have any new policies, objectives or targets related to PM2.5 please include some brief narrative about them here.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Measure** | **Action** | **Progress*** Emissions/Concentration data
* Benefits
* Negative impacts / Complaints

*Include emissions data and KPIs where possible. Please include recently completed projects as well as any new projects (which have commenced since you last reviewed your AQAP)* | **Further information** |
|  |  |  | *e.g. Internal to Council.**Easily replicable.* |
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# 3. Planning Update and Other New Sources of Emissions

*This section is mandatory. Please complete as much as you can – if there is any information you haven’t been able to capture please explain why, and how this will be rectified for next year’s report.*

*For the questions relating to Planning Applications it simply requires totals of the numbers of conditions that have been formally recommended for incoming Planning Applications. No further detail is required and it is not necessary to provide any detail on whether the application was accepted or whether the development has commenced. However, For NRMM, in addition to including information on the number of Planning conditions, please also include basic enforcement information, as per the example below.*

Table L. Planning requirements met by planning applications in *Borough Name* in 2016

|  |  |
| --- | --- |
| **Condition** | **Number***Please complete all fields in this column with the total numbers* |
| Number of planning applications reviewed for air quality impacts |  |
| Number of planning applications required to monitor for construction dust |  |
| Number of CHPs/Biomass boilers refused on air quality grounds |  |
| Number of CHPs/Biomass boilers subject to GLA emissions limits and/or other restrictions to reduce emissions |  |
| Number of AQ Neutral building and/or transport assessments undertaken |  |
| Number of AQ Neutral building and/or transport assessments not meeting the benchmark and so required to include additional mitigation |  |
| Number of planning applications with S106 agreements including other requirements to improve air quality |  |
| Number of planning applications with CIL payments that include a contribution to improve air quality |  |
| **NRMM: Central Activity Zone and Canary Wharf** Number of conditions related to NRMM included. Number of developments registered and compliant. Please include confirmation that you have checked that the development has been registered at [www.nrmm.london](http://www.nrmm.london) and that all NRMM used on-site is compliant with Stage IIIB of the Directive and/or exemptions to the policy. | *e.g.* *12 conditions included**6 registered and compliant**2 unregistered/uncompliant and being chased.* |
| **NRMM: Greater London (excluding Central Activity Zone and Canary Wharf)**Number of conditions related to NRMM included. Number of developments registered and compliant. Please include confirmation that you have checked that the development has been registered at [www.nrmm.london](http://www.nrmm.london) and that all NRMM used on-site is compliant with Stage IIIA of the Directive and/or exemptions to the policy. | *e.g.* *12 conditions included**6 registered and compliant**2 unregistered/uncompliant and being chased.* |

*If possible (this is not mandatory, but would be very much appreciated) please briefly describe the processes you have in place to ensure that all relevant planning applications are reviewed and any air quality conditions, including NRMM conditions, are enforced.*

3.1 New or significantly changed industrial or other sources

*Please list any new sources here. Or state “No new sources identified” if relevant*

# Appendix A Details of Monitoring Site QA/QC

A.1 Automatic Monitoring Sites

*Describe briefly the frequency of routine calibrations and periodic site audits and who carries these out (LA or contractor) (if applicable). Are there any issues to be highlighted?*

PM10 Monitoring Adjustment

*Please describe any adjustments made to Particulate Matter monitoring data e.g. correction factors applied to BAM data or use of VCM to correct TEOM data.*

A.2 Diffusion Tube Quality Assurance / Quality Control

*Details of QA/QC for diffusion tubes should include:–*

* *Lab supplying and analysing the tubes*
* *Preparation method used*
* *Confirmation that the lab follows the procedures set out in the Practical Guidance*
* *Results of laboratory precision (tube precision and WASP results:*

[*http://laqm.defra.gov.uk/diffusion-tubes/precision.html*](http://laqm.defra.gov.uk/diffusion-tubes/precision.html) *for precision*

[*http://laqm.defra.gov.uk/diffusion-tubes/qa-qc-framework.html*](http://laqm.defra.gov.uk/diffusion-tubes/qa-qc-framework.html) *for WASP results)*

* *Bias adjustment factor from the database available on the LAQM Support Website at:* [*http://laqm.defra.gov.uk/bias-adjustment-factors/national-bias.html*](http://laqm.defra.gov.uk/bias-adjustment-factors/national-bias.html)*. Please ensure you confirm the version of the database used (this can be found in the upper right hand part of the spreadsheet).*
* *Whether the Local Authority has compared the diffusion tubes with the reference method in a co-location study (details of this can be included as a sub-section or appendix)*
* *The bias adjustment factor being applied to the annual means from the diffusion tubes*
* *Where this came from – i.e. local co-location*

*Information on QA/QC for diffusion tubes can be found on the LAQM website at* [*http://laqm.defra.gov.uk/diffusion-tubes/diffusion-tubes.html*](http://laqm.defra.gov.uk/diffusion-tubes/diffusion-tubes.html)

*Give the bias adjustment factors for the previous years included in the body of the report – but do not give the full calculation for the previous years.*

Factor from Local Co-location Studies (if available)

*Provide annual means and bias for each site – including type of site location.*

*Local authorities are encouraged to share co-location information with other authorities. The questionnaire for adding your own co-location study to the database is at* [*http://laqm.defra.gov.uk/bias-adjustment-factors/co-location-data.html*](http://laqm.defra.gov.uk/bias-adjustment-factors/co-location-data.html)*.*

*Please complete and return the co-location questionnaire to ensure your monitoring data is considered for inclusion in the database of bias adjustment factors provided by the LAQM Helpdesk. This should be done as soon as possible to ensure the database is updated in advance of report submission.*

Discussion of Choice of Factor to Use

*If both local and national Bias Adjustment Factors are available please state which has been used and the reasons for the choice, also describing the impact of this choice (e.g. whether the factor used is conservative).*

A.3 Adjustments to the Ratified Monitoring Data

Short-term to Long-term Data Adjustment

*Where data capture is less than 75% of a full calendar year (less than 9 months), the mean should be “annualised” – i.e. adjusted using the methodology outlined in LLAQM.TG(16*) *before being compared to annual mean objectives.*

*Include a table stating long-term sites chosen for calculation and state dates for Period Mean, as shown in Table A.1*

Table M. Short-Term to Long-Term Monitoring Data Adjustment

| **Site** | **Site Type** | **Annual Mean (µg/m3)** | **Period Mean (µg/m3)** | **Ratio** |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| **Average** |  |

Distance Adjustment

*If an exceedance is measured at a monitoring site which is not representative of public exposure, use the procedure specified in* *LLAQM.TG(16*) *to estimate the concentration at the nearest receptor and describe the process followed here.*

# Appendix B Full Monthly Diffusion Tube Results for 2016

Table N. NO2 Diffusion Tube Results

| ***Site ID*** | ***Valid data capture for monitoring period % a*** | ***Valid data capture 2015 % b*** | ***Annual Mean NO2*** |
| --- | --- | --- | --- |
| ***Jan*** | ***Feb*** | ***March*** | ***Apr*** | ***May*** | ***June*** | ***Jul*** | ***Aug*** | ***Sept*** | ***Oct*** | ***Nov*** | ***Dec*** | ***Annual mean – raw data c*** | ***Annual mean – bias adjusted c*** |
| *CM1* | *95* | *95* | *26.2* | ***42.1*** | *XX* | *XX* | *XX* | *XX* | *XX* | *26.3 b* | *XX* | *XX* | *XX* | *XX* | *XX* | *XX* |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Exceedance of the NO2 annual mean AQO of 40 μgm-3 are shown in **bold**.
a data capture for the monitoring period, in cases where monitoring was only carried out for part of the year
b data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%)

c Means should be “annualised” in accordance with LLAQM Technical Guidance, if valid data capture is less than 75%

1. LLAQM Policy and Technical Guidance 2016 (LLAQM.TG(16)). https://www.london.gov.uk/what-we-do/environment/pollution-and-air-quality/working-boroughs [↑](#footnote-ref-1)