
Local Authority:	Kings Lynn and West Norfolk Borough Council
Reference:	ASR21-0981
Date of issue	September 2021

Annual Status Report Appraisal Report

The Report sets out the Annual Status Report, which forms part of the Review & Assessment process required under the Environment Act 1995 and subsequent Regulations.

Kings Lynn and West Norfolk Borough Council have declared two Air Quality Management Areas (AQMAs) within their jurisdiction for exceedances of the annual mean air quality objective for NO₂.

Automatic monitoring of NO₂ was undertaken at 2 roadside sites during 2020, of which one is located at a site considered to be representative of relevant exposure. The annual mean objective for NO₂ was not exceeded at either site and concentrations weren't within 10% of the AQO. The Council also undertake monitoring of particulates; the 2020 PM₁₀ network comprised of one PM₁₀ TEOM monitor and four indicative Osiris dust monitors. PM₁₀ concentrations reported at these sites have remained below the annual mean and 24-hour mean AQS objective limits since 2015. PM_{2.5} is monitored indirectly throughout the borough via the four Osiris dust monitors and is therefore indicative only. Annual mean PM_{2.5} concentrations have been below the objective since monitoring began in 2016.

Non-automatic monitoring of NO₂ was undertaken via a network of 74 diffusion tubes across 72 monitoring sites, including a triplicate co-location study. The annual mean objective for NO₂ was not exceeded at either site and concentrations weren't within 10% of the AQO. Despite Covid-19, data capture was good across the network, and fell below 75% at only 4 locations, where annualisation was carried out correctly. It was conducted using an average annualisation factor, calculated using background concentrations from the four closest AURN sites to the Borough Council of King's Lynn and West Norfolk.

QA/QC is considered to be thorough, with detailed supporting discussion provided for all procedures applied. Justification is provided for the absence distance correction (sites with recorded concentrations > 36 µg/m³ are considered representative of relevant exposure). The Council have calculated a local bias adjustment factor, however have opted to apply the national factor as it is higher and therefore more conservative. Evidence for local factor calculation has been provided, which adheres to good practice.

Kings Lynn and West Norfolk Borough Council's AQAP was published in 2015, and is therefore past the 5-year mark and needs to be updated. The Council have noted their intention to update

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their AQAP following the completion of the Kings Lynn Transport Study, which is supported. As the Council has identified transport emissions as the main cause of elevated concentration, most actions to improve air quality have been focused on encouraging the use of public or active transport.

The impacts, opportunities and challenges brought by Covid-19 have been identified and well detailed.

On the basis of the evidence provided by the local authority the conclusions reached are **accepted** for all sources and pollutants. The next step is for Kings Lynn and West Norfolk Borough Council to submit an Annual Status Report in 2022.

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Commentary

The report is well structured, detailed, and provides the information specified in the Guidance. The following comments are designed to help inform future reports.

1. The Council have provided a thorough report which contains the required content.
2. The name of the "Town Centre AQMA" as displayed in Table 2.1 is different from the one registered on the portal ("Railway Road AQMA"). The Council should contact the LAQM helpdesk so that it can be corrected.
3. Monitoring locations have been reviewed and four additional tubes locations have been introduced, which is encouraged.
4. Monitoring location mapping is comprehensive and clearly demonstrates the extent of the monitoring network.
5. QA/QC is thorough and detailed supporting discussion is provided for all procedures applied, including annualization and bias adjustment. This adheres with good practice and is encouraged for all future reports.
6. As in the previous ASR, clear priorities for 2021 were outlined, including completion of the Kings Lynn Transport Study and progression of an update to the Council's AQAP. These priorities are considered appropriate, and it is expected that a detailed update be provided in the Council's 2021 ASR.

This commentary is not designed to deal with every aspect of the report. It highlights a number of issues that should help the local authority either in completing the Annual Status Report adequately (if required) or in carrying out future Review & Assessment work.

Issues specifically related to this appraisal can be followed up by returning the attached comment form to Defra, Welsh Government, Scottish Government or DOE.

For any other queries please contact the Local Air Quality Management Helpdesk:

Telephone: 0800 0327 953

Email: LAQMHelpdesk@bureauveritas.com

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Appraisal Response Comment Form

Contact Name:	
Contact Telephone number:	
Contact email address:	

Comments on appraisal/Further information: