

Local Authority:	Kings Lynn and West Norfolk Borough Council
Reference:	ASR19-0166
Date of issue	October 2019

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.

The Kings Lynn and West Norfolk area enjoys good air quality with the exception of one exceedance of the national air quality objectives. Due to historical exceedances two AQMAs has been declared: Town Centre AQMA and Gaywood Clock AQMA. There was one exceedance in the Town Centre AQMA.

Automatic monitoring for NO₂ was undertaken at two sites during 2018, Southgates Park and Gaywood, both in Kings Lynn, with one in each of the AQMAs. The annual means at these sites were 23.9 and 34.5 µg/m³ respectively, below the national objective and with no exceedances of the 1-hour mean objective. Automatic monitoring for PM₁₀ was also undertaken at two sites, North Lynn and Lynn Road, with additional indicative monitoring from Osiris monitors at a further five sites (four monitors, one of which was relocated to a new site), however due to relocation one continuous site did not have sufficient data capture, therefore only data from the Lynn Road site is available. The annual means at this continuous site was 18.4 µg/m³, below the air quality objectives and with no exceedances of the 24-hour mean objective, however due to low data capture (<25%) this should not be taken as absolute. The annual means at the indicative Osiris locations were between 10.3 and 16.4 µg/m³, below the air quality objectives but with 4 exceedances of the 24-hour mean objective, all at the OS1 site, Page Stair Lane. The Osiris sites also recorded PM_{2.5} at the same sites, with annual means between 4.9 and 7.0 µg/m³, below the air quality objectives.

The relocation of the TEOM monitor from North Lynn was in response to public complaints of potential exposure from a neighbouring animal feed plant. In response to this the existing Osiris at that site was relocated to a new site, to aid the planned detailed AQ assessment in Stoke Ferry. Where these sites had low data capture annualisation was carried out.

Non-automatic (passive) monitoring of NO₂ was conducted at 69 sites during 2018, including one triplicate site. The monitoring results show NO₂ concentrations exceeded objective levels at one site, in the Town Centre AQMA, with a further four sites within 10% of the objective. Data capture for 2018 was good (above 75%) at all monitoring locations therefore annualisation was not required.

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Some QA/QC procedures have been applied with a local bias adjustment factor used from the triplicate diffusion tubes co-located with a continuous monitor. Annualisation was not carried out for any diffusion tube sites, as data capture was above 75% at all sites, however it was carried out for the Osiris OS2 site due to low data capture. Distance correction was not required at any sites in 2018. The report provides maps of each monitoring site and a breakdown of historical trend data.

The Council has made progress with measures to address air quality in Kings Lynn and West Norfolk in 2018. The council has progressed the King's Lynn Transport Study which focuses on the possibility of implementing various transport improvement schemes in the Borough to help reduce pollutant contributions from vehicular traffic. In addition, the use of public transport is being promoted and electric vehicle charging points implemented. The council has identified priorities for 2019 including undertaking a detailed assessment in Stoke Ferry and updating the existing AQAP with the outcomes of the King's Lynn Transport Study.

On the basis of the evidence provided by the local authority the conclusions reached are acceptable for all sources. Following the completion of this report, Kings Lynn and West Norfolk Borough Council should submit an Annual Status Report in 2020.

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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. Trends are clearly presented and discussed and a robust comparison with air quality objectives is provided.
2. The diffusion tube and AQMA mapping is comprehensive and clearly demonstrates the monitoring network.
3. The relocations of the PM TEOM and Osiris monitors in response to public concerns is welcomed to ensure the most relevant sites of public exposure are monitored.
4. The continuing review of NO₂ monitoring locations with historically low NO₂ levels is supported and any updates should be reported on in the 2020 APR.
5. The council is planning to update the AQAP with the outcomes of the King's Lynn Transport Study, any updates to this should be reported on in next year's ASR.
6. QA/QC of the data was considered to be thorough, with annualisation of data carried out at one Osiris site and a local bias adjustment factor used for the non-automatic network.
7. The report included measures to address PM_{2.5} and links to Public Health outcomes Frameworks. This is encouraged to be continued in future ASRs.
8. Clear priorities for 2019 were identified, which is welcomed. Progress made on these priorities should be reported on in next year's report.
9. Comments from the previous appraisal have been included and addressed, which is welcomed.

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 Progress 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 Assembly Government, Scottish Government or DOE.

For any other queries please contact the Local Air Quality Management Helpdesk:
 Telephone: 0800 0327 953
 Email: LAQMHelpdesk@uk.bureauveritas.com

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Appraisal Response Comment Form

Contact Name:	
Contact Telephone number:	
Contact email address:	

Comments on appraisal/Further information: