

Revocation of the Cribbs Causeway Air Quality Management Area

Consultation Document

Proposed Change

We propose to revoke (remove) the Cribbs Causeway Air Quality Management Area (AQMA) located next to the M5 Junction 17 roundabout. The AQMA includes a single residential property and was originally declared in April 2010 for the traffic related pollutant; nitrogen dioxide (NO₂).

Why we would like to make this change

Since Cribbs Causeway AQMA was declared, the monitoring results have shown the nitrogen dioxide (NO₂) levels are below the national annual average target of 40 µg/m³ at the property within the AQMA. This indicates the AQMA is no longer required as the annual average target has not been exceeded for the last seven years, and shows sustained compliance with the target. The Department for Environment, Food and Rural Affairs (Defra) have recommended that the Council consider revoking the AQMA and the Council's Cabinet Members have accepted this recommendation.

However we would like to hear your views on the proposed revocation of the Cribbs Causeway Air Quality Management Area and how it might affect you.

Background Information

The Council has a statutory duty under the Environment Act 1995 to regularly review and assess local air quality against national targets to check whether or not the targets are likely to be met. The results are reported in the Council's Air Quality Annual Status Reports (ASRs) which are available on our website [here](#).

Where the pollutant levels are above or are likely to be above the national targets, an Air Quality Management Area (AQMA) must be declared and an Air Quality Action Plan (AQAP) prepared to improve air quality within the area.

The Cribbs Causeway AQMA was declared in April 2010 following a [detailed assessment](#) of nitrogen dioxide levels at roadside monitoring sites close to the M5 Junction 17 roundabout.

Map of Cribbs Causeway Air Quality Management Area



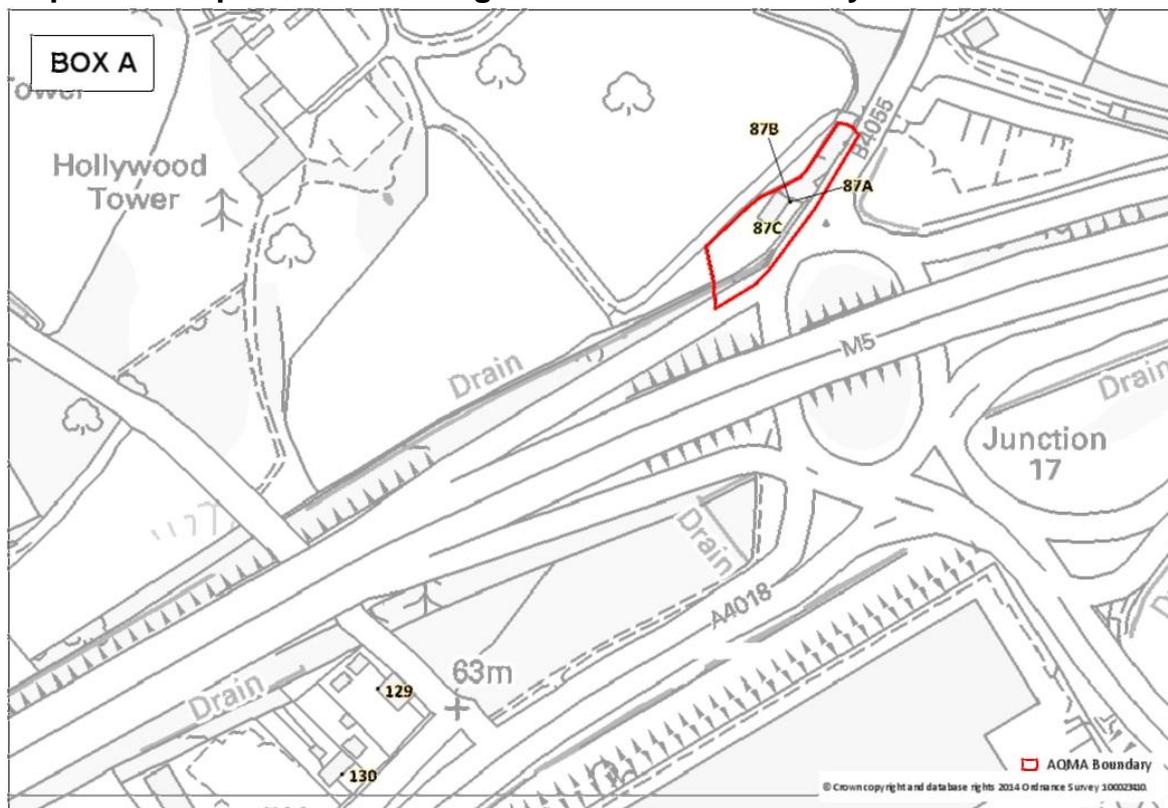
Following the declaration, a further assessment of air quality in the AQMA was carried out. A monitoring site (site 87) was set up at the façade of the residential property in the AQMA to better represent the air quality the residents were exposed to living there.

The [Further Assessment Report 2011](#) concluded the 2010 nitrogen dioxide concentration ($33.0 \mu\text{g}/\text{m}^3$) at site 87 was below the annual average target, indicating the AQMA may not be required. As a precaution, the recommendation was made to continue monitoring and review the results for 2011 and if these were also below the target, then it would be appropriate to revoke the AQMA.

The 2011 result ($34.0 \mu\text{g}/\text{m}^3$) also showed the annual average target was met at site 87 and the revocation of the AQMA was proposed in the [2012 Air Quality Updating and Screening Assessment](#). However, Defra recommended the AQMA be retained pending further monitoring results, as while 2010 and 2011 results were below the target, pollutant concentrations can vary significantly from one year to another.

The Council accepted the recommendation to retain the AQMA and review further monitoring results. Triplicate diffusion tube monitoring, which is considered to be more robust, was set up at the façade of the property within the AQMA in 2013.

Map of the Triplicate Monitoring in the Cribbs Causeway AQMA



The results of the triplicate monitoring from 2013 are reported in the Table below:

Table of Triplicate Monitoring Results in the Cribbs Causeway AQMA

| Site ID | Site Name | NO ₂ Annual Mean Concentration (µg/m ³) ⁽¹⁾ | | | | |
|---------------------------|--|---|-------------|-------------|-------------------------|-------------|
| | | 2013 | 2014 | 2015* | 2016 | 2017 |
| 87A | Cribbs Causeway – Blackhorse Hill Hollywood Cottage façade | 32.7 | 34.9 | 28.4 | 28.3 ^a | 26.6 |
| 87B | Cribbs Causeway – Blackhorse Hill Hollywood Cottage façade | 32.2 | 34.3 | 28.7 | 29.9 ^a | 27.2 |
| 87C | Cribbs Causeway – Blackhorse Hill Hollywood Cottage façade | 32.1 | 34.3 | 29.5 | 29.3 ^a | 27.2 |
| Triplicate Average | | 32.3 | 34.5 | 28.9 | 29.1^a | 27.0 |

⁽¹⁾ Means for diffusion tubes have been corrected for bias¹

^a Annualisation has been conducted where data capture is <75% as per Boxes 7.9 and 7.10 in LAQM.TG16².

¹ <https://laqm.defra.gov.uk/bias-adjustment-factors/bias-adjustment.html>

² <https://laqm.defra.gov.uk/technical-guidance/>

* The significant decrease in concentrations in 2015 could be due to improvements made to the M5 Motorway Junction 17 in 2015/16 following the Local Pinch Point Funding secured in 2013, to manage the impact of anticipated development in the Cribbs Causeway/Patchway area and reduce congestion.

As the nitrogen dioxide concentrations at the residential property within the AQMA have been below the annual average target since the AQMA was declared, an action plan has not been required.

Monitoring will continue to remain in place to assess the impact of new development in the Cribbs Causeway/ Patchway new neighbourhood area at this location.

How to find out more and have your say

We would like to hear your views on the proposed revocation of the Cribbs Causeway Air Quality Management Area and how this might affect you.

The consultation is open until Wednesday 20th March 2019 for your feedback.

To take part, you can:

- Complete the online survey on the consultation webpage:
https://consultations.southglos.gov.uk/consult.ti/Cribbs_AQMA
- Telephone: 01454 868154
- Email consultation@southglos.gov.uk
- Download and print a paper copy of the survey to fill in and post to:
*South Gloucestershire Council, Corporate Research & Consultation Team,
Council Offices, Badminton Road, Yate, BRISTOL BS37 5AF.*

Further information on air quality is available on our website via the following link www.southglos.gov.uk/airquality. Alternatively you can call the Contact Centre on 01454 868001 if you have an enquiry and an Environmental Protection Officer will respond to your enquiry.