



2025 Air Quality Annual Status Report (ASR)

In fulfilment of Part IV of the Environment Act 1995
Local Air Quality Management, as amended by the
Environment Act 2021

Date: June, 2025

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Local Responsibilities and Commitment

This ASR was prepared by the Public Protection Department of City of York Council with the support and agreement of the following departments: Transport Planning, Highways, Planning, Carbon Reduction, Fleet Services, Business Support and Public Health.

This ASR has been approved by Cllr Jenny Kent (Executive Member for Environment and Climate Change) and signed off by Peter Roderick, Director of Public Health and James Gilchrist, Director of Transport, Environment and Planning.

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Executive Summary: Air Quality in Our Area

Air Quality in York

Breathing in polluted air affects our health and costs the NHS and our society billions of pounds each year. Air pollution is recognised as a contributing factor in the onset of heart disease and cancer and can cause a range of health impacts, including effects on lung function, exacerbation of asthma, increases in hospital admissions and mortality.

Air pollution particularly affects the most vulnerable in society, children, the elderly, and those with existing heart and lung conditions. Low-income communities are also disproportionately impacted by poor air quality, exacerbating health and social inequalities.

Table ES 1 provides a brief explanation of the key pollutants relevant to Local Air Quality Management and the kind of activities they might arise from.

Table ES 1 - Description of Key Pollutants

| Pollutant | Description |
|--|--|
| Nitrogen Dioxide (NO ₂) | Nitrogen dioxide is a gas which is generally emitted from high-temperature combustion processes such as road transport or energy generation. |
| Sulphur Dioxide (SO ₂) | Sulphur dioxide (SO ₂) is a corrosive gas which is predominantly produced from the combustion of coal or crude oil. |
| Particulate Matter (PM ₁₀ and PM _{2.5}) | <p>Particulate matter is everything in the air that is not a gas.</p> <p>Particles can come from natural sources such as pollen, as well as human made sources such as smoke from fires, emissions from industry and dust from tyres and brakes.</p> <p>PM₁₀ refers to particles under 10 micrometres. Fine particulate matter or PM_{2.5} are particles under 2.5 micrometres.</p> |

Through monitoring of air quality across the city, City of York Council (CYC) has previously identified some areas of the city centre, around the inner ring road, where long term annual average nitrogen dioxide (NO₂) levels are above health based objective levels. These areas have been incorporated into an Air Quality Management Area (AQMA). Historically, AQMAs have also existed in Fulford (AQMA Order No.2) and on Salisbury Terrace (AQMA Order No.3). These AQMAs were revoked in 2020 and 2017 respectively

due to improvements in air quality in these areas of the city. Current and historical AQMAs declared by CYC can be viewed at [List of York AQMAs](#) and are discussed in CYC's previous [Annual Status Reports](#).

CYC has a statutory duty to try to reduce NO₂ concentrations within the remaining city centre AQMA and additional obligations in relation to the protection of public health and reduction of greenhouse gas emissions. The main air pollutants of concern in York are NO₂ and particulate matter (PM). Typically, transport sources are responsible for around 50-70% of the total NO₂ at any particular location in the city, although the exact amount varies according to proximity to roads and other emission sources. Road transport is also a source of PM emissions, although its contribution is less than half that of domestic burning of solid fuels in closed stoves and open fires.

The latest air pollution monitoring data for 2024, summarised in this report, indicates that NO₂ concentrations in the AQMA have improved further since 2023. The highest concentration of NO₂ recorded at a location representative of long-term public exposure in 2024 was 32µg/m³ on Blossom Street, near the junction with Queen Street (diffusion tube reference C27). This is within the health-based objective of 40µg/m³ and reflects a significant improvement on 2023, where maximum NO₂ concentrations of 43µg/m³ (above the objective) were monitored near the junction of Gillygate and Bootham.

Improvements in annual mean NO₂ monitored at roadside continuous monitoring sites were observed between 2023 and 2024 at Holgate Road (8% improvement), Nunnery Lane (8% improvement), Gillygate (22% improvement), Lawrence Street (2% improvement), Heworth Green (12% improvement) and Fulford Road (7% improvement). In contrast, annual mean NO₂ concentrations monitored at the Fishergate roadside monitoring site increased by 6% between 2023 and 2024.

Annual mean background concentrations of NO₂ monitored at Bootham Park Hospital (City of York Council's urban background monitoring site) also improved by 3% between 2023 and 2024.

Concentrations of NO₂ monitored at the vast majority of locations in York throughout 2024 continue the downward trend in NO₂ concentrations monitored in the city since 2012. Ongoing air quality monitoring across the city is considered fundamental to understanding the magnitude of any changes due to increased levels of walking and cycling, changes in public transport use, vehicle electrification and other ongoing air quality improvement initiatives as set out in the council's fourth [Air Quality Action Plan \(AQAP4\)](#).

With respect to the city centre AQMA, there were no monitoring locations that measured annual mean NO₂ concentrations of 40µg/m³ or above in 2024. This is the first year since the pandemic (2020) that all CYC monitoring sites have achieved compliance with health-based objectives.

Maximum annual mean concentrations of NO₂ monitored at relevant locations across the current AQMA were 31.1µg/m³ (Gillygate / Bootham), 28.5µg/m³ (George Hudson St / Rougier St), 32.4µg/m³ (Holgate / Blossom Street), 28.1µg/m³ (Lawrence St), 25.4µg/m³ (Fishergate / Paragon St), 24.8µg/m³ (Prices Lane/Nunnery Lane) and 27.2µg/m³ (Coppergate). Maximum concentrations of NO₂ decreased in all these areas between 2023 and 2024 and ranged from 3% lower around Prices Lane / Nunnery Lane to 27% lower around Gillygate / Bootham.

In line with DEFRA's LAQM guidance, before revoking an AQMA on the basis of measured pollutant concentrations, a local authority needs to be reasonably certain that any future exceedances of air quality objectives are unlikely. For this reason, it is expected that local authorities will need to consider measurements carried out over several years or more, national trends in emissions, as well as local factors that may affect the AQMA. Additionally, where NO₂ monitoring is undertaken using diffusion tubes, to allow for the uncertainty associated with the monitoring method, it is recommended that revocation of an AQMA should only be considered following three consecutive years of annual mean NO₂ concentrations being lower than 36µg/m³ (i.e. within 10% of the annual mean NO₂ objective). Whilst some areas of CYC's AQMA have now experienced more than 3 consecutive years of concentrations being lower than 36µg/m³ this is not the case for all areas of the AQMA, notably the areas around Holgate/Blossom Street, Gillygate/Bootham and Rougier Street / George Hudson Street. CYC will keep the AQMA boundary under review, taking into account DEFRA's guidelines. It may be appropriate to revoke some localised areas of the city centre AQMA in the near future.

Concentrations of NO₂ monitored in the former Fulford Road AQMA in 2024 continue to be well below the annual mean objective of 40µg/m³. The highest recorded levels of NO₂ in this area were monitored on Fulford Main Street (Diffusion Tube C58) and were 23.9µg/m³. This supports the decision to revoke the Fulford Road AQMA, as discussed in CYC's previous Annual Status Reports and implemented in February 2020.

Concentrations of NO₂ monitored in the former Salisbury Terrace / Leeman Road AQMA in 2024 were also all well below the annual mean objective of 40µg/m³. The highest recorded levels of NO₂ in this area were monitored on Salisbury Terrace (Diffusion Tube 102) and

were $20.9\mu\text{g}/\text{m}^3$. This confirms that the decision to revoke this AQMA in December 2017 was appropriate.

In December 2018, the boundary of the city centre AQMA was extended to include the full length of Coppergate and the buildings either side of the road, due to monitored concentrations of NO_2 above the annual mean objective for this pollutant. The highest annual mean concentrations of NO_2 monitored along Coppergate in 2024 was $27.2\mu\text{g}/\text{m}^3$ at site D56 (Three Tuns Pub, 12 Coppergate) which is below the annual mean objective for this pollutant. This area of the AQMA has now experienced concentrations of NO_2 below $36\mu\text{g}/\text{m}^3$ for 2 consecutive years (2023 and 2024) with maximum concentrations monitored in 2024 being 23% lower than 2023. This area of the city centre AQMA will be kept under review to establish longer term trends in pollution and to confirm that concentrations of NO_2 remain well within objective levels, prior to making any amendments to the AQMA boundary.

Revisions to the AQMA Order in 2018 also removed the reference to breaches of the short-term hourly objective along George Hudson Street / Rougier Street / Bridge Street based on monitoring results in this area. The latest 2024 monitoring results for this area of the city indicate that this short-term objective is still being met (all annual mean concentrations were less than $60\mu\text{g}/\text{m}^3$ which, in line with DEFRA guidance, suggests that an exceedance of the 1-hour mean objective is unlikely).

CYC monitored particulate (PM_{10}) at three sites (Bootham, Fishergate and Plantation Drive) and fine particulate ($\text{PM}_{2.5}$) at four sites (Bootham, Fishergate, Gillygate and Holgate Road) in 2024. National health-based air quality objectives for PM_{10} and $\text{PM}_{2.5}$ are currently met in York. The highest annual mean levels of PM_{10} and $\text{PM}_{2.5}$ monitored in York during 2024 were $17.8\mu\text{g}/\text{m}^3$ (at Plantation Drive) and $9.0\mu\text{g}/\text{m}^3$ (at Gillygate) respectively. Along with many areas of the UK, these concentrations are above World Health Organisation (WHO) guidelines for these pollutants, which have been strengthened to $15\mu\text{g}/\text{m}^3$ (PM_{10}) and $5\mu\text{g}/\text{m}^3$ ($\text{PM}_{2.5}$). Maximum particulate concentrations monitored in 2024 are slightly above the maximum levels of $16.8\mu\text{g}/\text{m}^3$ (PM_{10}) and $8.0\mu\text{g}/\text{m}^3$ ($\text{PM}_{2.5}$) monitored in 2023.

Actions to Improve Air Quality

Whilst air quality has improved significantly in recent decades, there are some areas where local action is needed to protect people and the environment from the effects of air pollution.

CYC previously produced two Air Quality Action Plans (AQAPs) in 2004 and 2006. These previous plans were primarily modal shift and congestion reduction based plans, with emphasis on reducing vehicle trips across the city.

Despite the introduction of two AQAPs, air quality in York continued to deteriorate between 2004 and 2010. In response, York adopted an overarching Low Emission Strategy (LES) in 2012 and produced a third AQAP in 2015 to deliver this strategy. The LES was the first of its kind in the UK and set out a new approach to local air quality management based on reducing emissions from all sources, including tailpipe emissions from individual vehicles and encouraging the uptake of alternative fuels and low emission vehicle technologies. The Low Emission Strategy has proved particularly effective at tackling emissions from essential service vehicles such as buses and taxis, which fall outside the scope of trip reduction based modal shift measures.

Modal shift and congestion reduction measures remain fundamental to the delivery of air quality improvement and emission reduction in York. The primary local delivery programmes for these measures are the Local Transport Plan and the [iTravel York](#) programme. Existing local programmes encourage the uptake of walking, cycling, and low emission public transport in the city. They are supported by planning policies that ensure that sustainable travel solutions are embedded into all new developments in York.

CYC consulted on an updated, fourth [Air Quality Action Plan \(AQAP4\)](#) between November 2023 and February 2024. AQAP4 aims to reduce levels of air pollution in the city beyond health-based National Air Quality Objectives, thereby improving the health and quality of life of residents and visitors to York. Over three quarters (79%) of respondents agreed that the council should continue to reduce air pollution, with between 67% and 87% of respondents indicated support for all priority actions. AQAP4 was adopted by CYC's Executive in July 2024. Updates on progress with measures in AQAP4 are provided in this report.

York has made notable progress in improving air quality throughout 2024, building on previous efforts and introducing new initiatives to tackle pollution and enhance public health. Key developments include:

- **Buses** - Following the introduction of the UK's first and only 'voluntary' Clean Air Zone (CAZ) for buses in 2020/21, CYC has worked in partnership with bus operators to introduce further zero emission electric buses to the York fleet, significantly reducing carbon, NOx and particulate emissions across the city. Our work bringing Government



funding to the city has enabled national bus company First Bus to set up one of its first net zero emission bus operations in the city. The York depot is one of the first outside London to be fully electric, and the first in Yorkshire, and £10.2m funding of the £23m project was secured by CYC from the Department for Transport ZEBRA scheme. The depot has seen emissions reduce by 90% compared to 2020 with the total fleet of 86 all-electric buses saving around 5,000 tonnes of CO₂ a year. The current phase of CYC's bus electrification programme will involve nearly all of York's operators, which include small local companies as well as larger national operators and will cover less frequent services and those which are urban/rural in character. Through our Enhanced Partnership, CYC holds regular meetings with operators and stakeholders where feedback and participation from all bus user and disability groups is actively welcomed.

- **Taxis** - We provided financial support to taxi drivers through our DEFRA funded Low Emission Taxi Grant scheme until June 2024 (when all funding had been allocated). The project encouraged the transition to low emission taxis within York, via the use of incentives and awareness raising. The scheme provided £105k in grant funding and has supported 38 CYC licensed taxi drivers with either purchase or operational costs for low or zero-emission vehicles. At the end of December 2024, 40% of CYC licensed taxis were using low emission petrol hybrid or zero tailpipe emission electric vehicles. We also consulted with taxi users, members of the trade and other stakeholders between April and July 2024 on a new [Taxi Licensing Policy](#) that required vehicles to meet stricter emission standards to help improve air quality across the city. The new policy, approved in November 2024, also supports the supply of more wheelchair-accessible taxis and aims to increase awareness of and extend safeguarding standards among drivers and operators.

- **CYC Fleet** – following electrical infrastructure upgrades at the council's Hazel Court ECO depot site, we continued our phased EV fleet replacement programme for vehicles under 3.5t. At January 2025, 60% of CYC's operational van fleet were electric or plug-in hybrid electric vehicles by January 2025. A new multi-purpose mini electric vehicle, known



as a Goupil, also went into service on 29 April 2024. The vehicle is helping frontline staff in the Public Realm team keep the city clean and tidy and is being used for removing fly tipped items or carrying sandbags, tools and other heavy items. Its small size means it can be used across the narrow streets of York, without contributing to local air pollution.

- **Anti-idling initiatives** - we continued to promote our 'Kick the Habit' anti-idling campaign on Clean Air Day and throughout 2024 and worked with partners including schools and businesses to reduce the incidence of vehicle idling across the city. The campaign sets out to encourage people to think about the importance of clean air and the impact that this has on them, their health and those around them. Work in 2024 reinforces action in previous years, including the erection of permanent anti-idling signage in all CYC owned car parks, at most city centre bus stops, taxi ranks and at other key locations across the city. Further information about the campaign can be found on [CYC's Kick the Habit Webpage](#).



- **Electric Vehicle (EV) Charging Infrastructure** – we continued upgrade of our public electric vehicle charging network, consisting of 'fast', 'rapid' and 'ultra-rapid' charge points, as outlined in our existing [Public Electric Vehicle Charging Strategy](#). Council officers held two workshops with the Energy Saving's Trust (EST) in 2024 as part of the development of our updated Public Charging Strategy, due in 2025. These sessions included a review of current options for on-street charging, for residents in terraced streets without off-street parking provision. Data published in January 2024 shows that York has 104 charge points per 100,000 people. This compares to a figure of 46 for the

Yorkshire region and 73 for the UK as a whole on average. A research study undertaken in March 2024, conducted by 'Independent Advisor Car Insurance', concluded that York is the 4th best city in the UK for EV's and was ranked number 1 in the North of England for EV ownership.

- Planning and Development** – in line with CYC's [Low Emission Planning Guidance](#), we continued to ensure that emissions and air quality impacts from new developments were appropriately assessed and mitigated, exposure to poor air quality was reduced via good design practices and that new private trips were minimised via the provision of sustainable transport opportunities. An overview of planning applications reviewed by Public Protection during 2024 is provided in this Annual Status Report.
- Smoke Control Areas** - We adopted a new enforcement policy for smoke emissions in CYC's Smoke Control Area (SCA) in November 2024. The policy was developed in response to revisions to the Clean Air Act 1993 made through the Environment Act 2021. The policy will enable consistency in approach with other local authority areas and will act as a deterrent to burning non-authorised fuels (or using non-exempt appliances) in smoke control areas which contribute to air pollution and especially fine particulate concentrations across the city which impact human health. We re-launched our DEFRA funded 'Fuel for Thought' campaign across CYCs social media channels in October 2024; the campaign aims to raise awareness of the pollution caused by burning solid fuels and the dangers it can pose to health. CYC plan to consult on the expanding the Smoke Control Area in 2025 to ensure consistency in CYC's approach to dealing with smoke emissions across York and to ensure clarity for the public in terms of the rules for burning solid fuels.
- Pollution Forecasting Service** - We launched a new DEFRA funded pollution forecasting and alert platform, [York Air Alert](#), in July 2024. The new service sends free air pollution alerts and health advice to those most likely to be affected by air pollution to help them minimise their exposure when pollution episodes are forecast. Alerts give advanced warning of when air pollution is expected to be higher than usual, up to 3 days ahead. Subscribers can receive air quality alerts by text, email or voicemail for different areas of York, depending on where they live or work.
- Local Transport Strategy** – The Executive approved a new [Local Transport Strategy \(LTS\)](#) in July 2024. The Local Transport Strategy sets out ambitions for York's



transport network and infrastructure until 2040. This follows the extensive Our Big Conversation programme of engagement throughout 2021 and 2022, which asked residents, businesses and communities for their thoughts on what they want York to look like in 10 years, as well as data analysis and modelling undertaken for the Local Plan Examination in Public in 2022. The Local Transport Strategy is rooted in the wider city strategies and their ambitions, and sets out a series of key policy themes to achieve a reduction of 71% in York's transport carbon emissions (required to reach net zero by 2030). An Implementation Plan for the first period of the new LTS was approved by CYC's [Executive](#) in November 2024. The Plan reaffirms York's commitment to the city's "transport modal hierarchy", which prioritises active modes and public transport and was supported by 73% of respondents to Our Big Transport Conversation. It specifies a set of schemes and measures, some funded and some for which funding will be sought, which will deliver towards meeting the priorities identified in the "Our Big Transport Conversation" consultation. The Implementation Plan provides an approach to city-wide transformation that will reduce air pollution and enable more physical and social activity through promotion and facilitation of active and sustainable modes of transport. This is aligned with priorities set out in CYC's Fourth Air Quality Action Plan (AQAP4).

- **Local Cycling and Walking Infrastructure Plan (LCWIP)** – this plan will develop more routes for active travel, enabling more people to choose to walk, wheel and cycle safely. The LCWIP is a strategic document which outlines an evidence-based, prioritised series of active travel zones and routes that can then be used to secure external funding, including developer contributions. The LCWIP was approved by CYC's [Executive](#) on 12 December 2024 but will be a 'living' document that can be updated based on changing circumstances and priorities in the city. The LCWIP will be responsive to key pieces of work such as the Movement and Place Plan, Local Plan and Local Transport Plan.
- **SAMHE (Schools Air quality Monitoring for Health and Education) Project** – CYC worked alongside the University of York to promote [SAMHE](#) amongst local schools. The project involves scientists from 6 institutions across the UK and is supported by the Department for Education (DfE). The project enables pupils to interact with real world data about their environment and brings together scientists, pupils and teachers. SAMHE is establishing a network of air quality monitors in schools across the UK, to generate an unparalleled dataset which will help researchers better understand

schools indoor air quality. There were 13 York schools that signed up to participate in the main project, with other local schools involved in the project co-design stages.

- **Gillygate Traffic Signal Trial** – in December 2024, CYC's [Executive Member for Transport](#) approved a traffic signal trial on Gillygate aimed at improving air quality in the Air Quality Management Area. The trial will be progressed throughout 2025 with support from local residents, businesses and partner organisations including York Civic Trust. The proposed trial is anticipated to reduce the number of queuing vehicles in Gillygate which, in addition to improving local air quality, will also create a safer environment for pedestrians, wheelchair users and cyclists. CYC will continue to work with residents of Gillygate and neighbouring streets to explore other options to improve air quality further in the local area.

Complementary air quality initiatives delivered in 2024 through CYC's transport and carbon reduction work programmes included:

- **Cycle to Work Day** – CYC supported the UK's biggest cycle commuting event on Thursday 1st August 2024. Cycle to Work Day aims to get more people to swap their cars for bikes and enjoy a healthier, more sustainable way to commute.
- **York Walking Festival** – our annual walking festival took place in September 2024 with a programme of ideas on how to explore the city on foot. The festival, organised by CYC's iTravel team, aims to encourage active travel and reduce vehicle emissions. A number of group walks were available over the week, such as the Bat Walk and the River Foss Wildlife and History Walk.
- **BetterPoints** - Residents of York were invited to celebrate York's Environment Weeks by walking or taking the bus around town and be in with the chance to win free bus travel. Since being set up in August 2021 York's [BetterPoints](#) programme has reduced CO2 output by 391,433 KG and allowed residents to travel 1,653,748 miles in a sustainable way (figures from Sept 2024)
- **Greet Streets** - Almost 2,500 new trees have been planted as part of the council's [Green Streets project](#). Working with local schools, parish councils and other stakeholders, trees have been planted along Malton Road and at Melrosegate Park, Huntington Environment Park, Carr Infants School, Lakeside Primary Academy, Burton



Green Primary and seven other school sites. This first year of planting has been fully funded by grants totalling £168,000 from the White Rose Forest and Forestry Commission. The grants also provide for three years aftercare, helping the new trees thrive.

- **York Climate Commission (YCC)** was relaunched by CYC at an event on 11th January 2024, at Merchant Adventurers' Hall in York. Organisations, businesses and councillors met to discuss how they can best improve the future of York's climate impact. During the event, members of more than 80 organisations shared thoughts on challenges to York's progress to net zero.
- **Council wins Award for Energy Efficiency Scheme** - CYC and E.ON Energy Solutions Ltd won the Regional Large-scale Project of the Year award, at the Yorkshire Energy Efficiency Awards 2024 for the delivery of a [Social Housing Decarbonisation Fund \(SHDF\)](#) scheme. Staff from the Home Energy Efficiency Team in CYC's Healthy and Sustainable Homes service received the award for work to retrofit houses in York with energy efficiency measures. A variety of different measures in each home reduced carbon emissions by an average of 30% per property and included insulation - cavity wall, external wall, loft and flat roof – as well as solar photovoltaic panels, smart heating controls, hybrid air source heat pumps, new external doors and double-glazed windows. The award was given for 95 retrofit measures on 28 social housing properties at Danebury Court and Harington Avenue and a property at Carl Street. The work was funded by the Government's Department of Energy Security and Net Zero.
- **Cut carbon costs for businesses workshop** - CYC's partner [Green Economy](#) ran a Cut Carbon Cut Costs Online Workshop for businesses based in York in July 2024 with practical steps to reduce energy use and save money.
- **Energy grants for homes not heated by mains gas** – we continued to award funding to help households not using mains gas become more energy efficient through a [Home Upgrade Grant](#). Grants were available for up to 60 households for energy-efficiency measures ranging from insulation upgrades to modern low-carbon heating systems or even photovoltaic (PV) panels.
- **Solar for Schools** - Our work with the Solar for Schools scheme, which gives schools and academies the opportunity to install solar panels for free, helped city schools cut costs and carbon emissions. Dringhouses Primary School was one of the schools to have solar panels fitted. 76 panels were installed at the school, which generated 3,385kWh of energy, saving 772kg of emissions over a two-month period. Solar for Schools has installed 2,468 panels across eight schools and academies in York and in

the last year over 530MWh of energy has been produced, saving over 121t of CO₂ being released. That's enough to provide electricity for over three hundred homes for the same time period.

- **York Community Woodland opens to the public** - York Community Woodland

is now open to the public after years of preparation work, another achievement which demonstrates to our commitment to Climate and Environment, the third commitment of the Council Plan, One City for all. Over the past five years,



190,000 trees have been planted across the 78-hectare site west of Knapton, an achievement made possible with the help of dedicated efforts from local volunteer groups. The project, developed by Forestry England in collaboration with CYC and the White Rose Forest, is a key component of Forestry England's ambitious goal to plant at least 2,000 hectares of new woodland across the country by 2026. York Community Woodland will play a crucial role in enhancing the wider landscape by creating vibrant habitats to boost biodiversity, improving air quality, and mitigating soil erosion and flooding. It also provides miles of walking paths winding through the woodland, providing opportunities for exercise, relaxation, and connecting with others.

- **York's two new micro woods sites are confirmed** - In September 2024, Councillors approved the locations of two new micro woods to be planted in the city through the Government's Coronation Living Heritage Fund. CYC's Green Streets team selected two sites from 50 locations using tools such as the Tree Equity Score to determine the most suitable location. The woods, each consisting of 600 trees, will be created in Rawcliffe and Holgate.
- **YorEnergy: Energy Solutions for Every York Home** – A new service to help residents achieve home energy efficiency and save on rising energy bills was launched in October 2024. [YorEnergy](#) offers a friendly all in one service to guide residents through the home upgrade process, including free advice on the best energy-saving options.

York already has much to celebrate in relation to reducing emissions and protecting and improving the health of its residents. However, with an increasing population and further development, preventing emission growth and improving air quality remain significant challenges.

CYC's updated [Air Quality Action Plan](#) (AQAP4) outlines the council's commitments to further improve air quality in York. AQAP4 is fully aligned to the [Council Plan](#) and reflects ambitions contained within our 10-Year Strategies covering climate, health and wellbeing and the economy.

Conclusions and Priorities

Key findings and conclusions from this year's Annual Status Report:

- The annual average air quality objective for NO₂ (40µg/m³) was not exceeded anywhere within the current Air Quality Management Area (or indeed anywhere in York) in 2024. The highest concentration of NO₂ recorded in 2024 at a 'relevant location' was 32.4µg/m³ near the junction of Blossom Street and Queen Street (Diffusion Tube C27).
- Improvements in annual mean NO₂ monitored at continuous monitoring stations were observed between 2023 and 2024 at Holgate Road (8% improvement), Nunnery Lane (8% improvement), Gillygate (22% improvement), Lawrence Street (2% improvement), Heworth Green (12% improvement), Fulford Road (7% improvement) and Bootham (3% improvement). Annual mean NO₂ concentrations monitored at Fishergate were 6% higher in 2024 than 2023. Co-located diffusion tubes at the Fishergate site also showed an increase of around 3% between 2023 and 2024; this is thought to due to construction vehicles and traffic management associated with a large-scale development immediately adjacent to the monitoring site.
- Maximum annual mean concentrations of NO₂ monitored at relevant locations across the current AQMA were 31.1µg/m³ (Gillygate / Bootham), 28.5µg/m³ (George Hudson St / Rougier St), 32.4µg/m³ (Holgate / Blossom Street), 28.1µg/m³ (Lawrence St), 25.4µg/m³ (Fishergate / Paragon St), 24.8µg/m³ (Prices Lane/Nunnery Lane) and 27.2µg/m³ (Coppergate). Maximum concentrations of NO₂ decreased in all these areas between 2023 and 2024 and ranged from 3% lower around Prices Lane / Nunnery Lane to 27% lower around Gillygate / Bootham.
- Concentrations of NO₂ monitored at the majority of locations in York throughout 2024 continue the general downward trend in NO₂ concentrations monitored in the city since 2012. Concentrations of NO₂ have generally been lower in the years 2021 - 2024 than pre-pandemic levels in 2019, with the latest monitoring data suggesting that concentrations of NO₂ in 2024 have now fallen below those recorded during the pandemic in 2020.

- Maximum concentrations of NO₂ monitored in the former Fulford Road and Salisbury Terrace / Leeman Road AQMAs (now revoked) in 2024 continue to be well below the annual mean objective.
- The highest annual mean concentrations of NO₂ monitored along Coppergate in 2024 was 27.2µg/m³ at site D56 (Three Tuns Pub, 12 Coppergate) which is below the annual mean objective for this pollutant. As concentrations of NO₂ have been variable at this site over the last few years and not yet consistently under 36µg/m³ (within 10% of the objective) it is considered appropriate to keep this area of the city under observation prior to making any amendments to the AQMA boundary.
- Monitoring of NO₂ in 2024 has not indicated any potential breaches of the short-term hourly NO₂ objective in the city.
- National health-based air quality objectives for PM₁₀ and PM_{2.5} are currently met in York. The highest annual mean levels of PM₁₀ and PM_{2.5} monitored in York during 2024 were 17.8µg/m³ and 9.0µg/m³ respectively. Whilst there is a general downward trend in particulate matter concentrations in York over the last 10+ years, trends over the last 5 years are less pronounced.

CYC's updated [AQAP4](#) (adopted July 2024) includes measures to further reduce nitrogen dioxide and particulates from all sources and supports and complements CYC's economic strategy, Local Plan, Local Transport Plan/Strategy and Climate Change Strategy.

City of York Council's priorities for the coming year are:

- **Progress development of York's future transport policies** – CYC's [Local Transport Strategy](#) (approved July 2024) sets out a vision for a healthier, more sustainable and better-connected city. Our [Transport Implementation Plan](#) (2024-2026) details the measures that will enable is to turn that vision into a reality and build the foundations for our forthcoming Movement and Place Plan (due by the end of 2025), which will map out connected networks for all modes of travel.
- **Explore opportunities to reduce freight emissions** – CYC's Local Transport Strategy and AQAP4 commit to exploring opportunities to improve freight and logistics to ensure that that York's businesses have efficient access for their supplies, goods and services, while at the same time reducing the impact of heavy lorries and light goods vehicles on carbon emissions, air pollution, safety and damage to heritage. In the short term we propose to designate a 'freight network' for medium (3.5T) and large (7.5T) vehicles and review powers to enforce such a network. We will also set up a

freight forum and invite industry partners and experts to advise and partner with us on developing a freight strategy and network for the city. We also propose to implement a scheme allowing cargo delivery cycles access to the city centre footstreets during footstreet hours. In 2021, CYC obtained funding from DEFRA to pilot a transshipment hub for the city, but this project has proved difficult to deliver to date, in part due to the challenge of attracting a commercial partner. We are actively seeking ways of delivering this project and are taking advice from other cities where successful similar pilots have been delivered in combination with commercial partners.

- **Continue to progress upgrades to bus services and infrastructure (including further electrification)** – presently there are around 14 million bus trips a year in York (nearly 40,000 a day). Electric buses now account for around 65% of all bus journeys in York. We will continue with our programme to electrify the bus network, aiming to completely electrify the network by 2028 (subject to funding). In the short term (2025-2026) we will deliver a ‘city centre sustainable transport route’ which will facilitate substantial reductions in through private traffic with active travel, public transport and essential journeys prioritised. This will not only improve bus service reliability and enhance air quality along the corridor but will provide safer walking and cycling routes into the heart of York city centre.
- **Traffic signal trials** – we will pursue initiatives in areas with poor air quality such as Gillygate (trial commenced January 2025 and is ongoing) by using traffic signals to mitigate the worst queuing in challenging areas of the network. We will embody the principles of the emerging Movement and Place Plan in how we manage our highway network. Potential interventions will be reallocation of highway space, traffic reduction, traffic filters and using signals to manage flows on some corridors. Wider gating strategies will also be considered to maximise efficiency of Park and Ride services and to improve air quality further in key areas of the city centre.
- **Sustainable Travel / Reducing car dependency** – we will continue to focus staff resource on promoting sustainable transport, utilising grants and developer contributions where available to provide advice to residents, employers and developers about how to make the most of active modes and public transport. This will involve an expanded programme of travel plans for individuals, schools, businesses and new developments. We will support sustainable travel events including community walks, cycle rides and car-free days and will host the ‘Active City’ conference in Summer 2025. We will pursue a programme of School Streets so that the travel needs of

children travelling to school are prioritised and will engage with the health sector on initiatives such as social prescribing of cycles and loan of e-bikes for health professionals. We will continue with our current Car Club initiative and over the coming year we will procure further Car Club packages to provide more extensive coverage across the city and out to villages, including access to a wider variety of vehicle types including vans. We will also develop a consistent and equitable strategy for parking across the city which balances the needs to provide access and to reduce levels of car use and will continue to investigate 'micro-mobility' schemes (with the intention of replacing the TEIR mobility scheme that came to an end in 2024).

- **Continue to address idling emissions** – CYC will continue to investigate complaints of idling and raise awareness of the links between idling emissions and health in line with CYC's existing '[Kick the Habit](#)' anti-idling campaign. We will respond to complaints of idling through additional resources and signage where appropriate.
- **Continue to reduce emissions from taxis through implementation of new Licensing Policy** - The council's Hackney Carriage and Private Hire Licensing Policy was approved by Council on 21 November 2024 and came into force on 22 November 2024. The policy will introduce an age limit and minimum emission standard for York's operational taxi fleet which will see a gradual change in the operational taxi fleet, as vehicle licenses are renewed and as vehicles become too old to operate in the city. CYC will continue to keep abreast of national grant opportunities for low emission taxis and provide advice to operators / drivers.
- **Reduce emissions from new development** – we will continue to work with developers to ensure development related emissions are appropriately assessed and mitigated, exposure to poor air quality is reduced via good design practices and that new private trips are minimised via provision of opportunities for sustainable transport. We will continue to encourage walking, cycling and low emission public transport use, which have co-benefits for health and wellbeing.
- **Expansion of strategic EV charging network** – CYC will continue with our EV charging programme and actively monitor plug-in vehicle uptake in the city to ensure our charging network remains fit for purpose. York has a developing network of electric vehicle charging points positioned in car parks, Park & Ride sites and at dedicated Hyper Hub charging sites. Over the coming year we will complete the update of our 'EV Charging Strategy' and seek ways to bring widespread coverage, using our Parking Strategy to help us balance competing needs of highway space. We will

continue to explore technology advances, such as inductive charging and will trial charging in residential areas (and evaluate its success and scope for further installations in York).

- **Improving public awareness of air pollution** – we will promote our DEFRA funded air pollution forecasting and alert platform. The platform has been designed to ensure the most vulnerable residents have access to information that allows them to minimise exposure when pollution levels are high. We will seek to improve awareness of the links between all air pollution and health impacts generally to support CYC's ongoing LAQM and public health work. This will include raising public awareness of the links between domestic solid fuel burning, particulate emissions and health impacts.
- **Further controls to address fine particulate emissions** – we will consider further opportunities to tackle fine particulate emissions. This will include implementation of a new Enforcement Protocol for smoke emissions within CYC's Smoke Control Area (SCA). We will also consult with the public on expansion our SCA to cover the whole of CYC's administrative area to improve air quality and health.

Challenges faced by City of York Council:

- The ability of current vehicle emission standards to deliver reductions in NO_x emissions, particularly the on-road performance of some Euro VI (and retrofitted) diesel vehicles. This extends to the remaining retrofitted Euro VI diesel buses operating in the city.
- Development related emissions through the cumulative impact of increased development in the city. CYC will endeavour to manage this through the application of local planning guidance, best practice emission mitigation measures and opportunities for sustainable transport. CYC's Transport Strategy sets a target of 20% reduction in vehicle miles travelled by 2030, which will need to be supported by significant increases in walking, cycling and use of public transport across York.
- Addressing air pollution from domestic solid fuel burning, especially during winter months, may present challenges as people turn to solid fuels to heat their homes in response to the energy and cost of living crisis. This may be further exacerbated in certain areas where fuel poverty may be a factor in the burning of non-certified wood products / waste wood or other materials. CYC has aimed to tackle this issue over the last couple of years through it's ['Fuel for Thought'](#) educational campaign and is

currently seeking to expand the Smoke Control Area to cover the whole of CYC's administrative area.

- Uncertainties with respect to future travel behaviour and challenges in achieving required modal shift targets to sustainable modes.
- Continued unnecessary vehicle idling in the city, particularly amongst heavy diesel vehicles.

Despite longer term improvements seen in air quality across CYC's area in recent years, the above factors are anticipated to remain challenges for CYC in the future.

How to get Involved

CYC consulted with the public and other key stakeholders on an updated [Air Quality Action Plan \(AQAP4\)](#) between November 2023 and February 2024. AQAP4 aims to reduce levels of air pollution in the city beyond health-based National Air Quality Objectives, thereby improving the health and quality of life of residents and visitors to York. AQAP4 was adopted by CYC's Executive in July 2024. Updates on progress with measures in AQAP4 are provided in this report.

Further information about air quality and previous consultations can be obtained from the [air quality pages](#) of CYC's main website.

Residents, businesses and other interested parties are encouraged to participate in future consultations relating to air quality. These are advertised online at: [City of York Council Consultations](#).

If you would like to see more done to improve air quality in your area, you can contact your [local councillor](#) or [MP](#) and share your concerns or ideas for improving air quality.

For more information on national campaigns to improve air quality you can visit the [Global Action Plan](#) website, the [Client Earth](#) website or the [Friends of the Earth](#) website.

City of York Council's continuous air quality monitoring data can be viewed at [Air Quality England](#). Pollution forecasts for York and advice about how to protect yourself from the impacts of poor air quality can be found at [York Air Alert](#).

You can help to further improve air quality in York by:

- Travelling sustainably and reducing private vehicle use, where possible. [Walk and cycle](#) those shorter trips and make the most of [public transport](#) and especially York's zero emission buses.

- If you own a car, consider using it less and the impact on the environment when the time comes to replace it. There are a huge range of electric and hybrid vehicles available to suit a variety of lifestyles which can offer lower emissions and reduced fuel and tax costs. CYC has an extensive public [electric vehicle charging](#) network across the city.
- Supporting our [Kick the Habit](#) campaign Switching off your vehicle engine when parked up and waiting. This is especially important outside schools and homes where children and residents are present.
- Being mindful of the rules for burning solid fuels if you live in a [Smoke Control Area \(SCA\)](#) in York. If you own a solid fuel burning appliance (e.g. wood burning stove), ensure it is regularly serviced and maintained in accordance with the manufacturers guidelines.
- [Recycle](#) wherever possible and consider options other than burning for disposing garden waste, such as [composting](#). Bonfires can cause a smoke nuisance to neighbours, preventing them from enjoying their gardens or opening windows.
- Consider low carbon options for domestic heating and energy efficiency upgrades. Find out about schemes the council currently has available on the [council website](#).

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1 Local Air Quality Management

This report provides an overview of air quality in York during 2024. It fulfils the requirements of Local Air Quality Management (LAQM) as set out in Part IV of the Environment Act (1995), as amended by the Environment Act (2021), and the relevant Policy and Technical Guidance documents.

The LAQM process places an obligation on all local authorities to regularly review and assess air quality in their areas, and to determine whether or not the air quality objectives are likely to be achieved. Where an exceedance is considered likely the local authority must declare an Air Quality Management Area (AQMA) and prepare an Air Quality Action Plan (AQAP) setting out the measures it intends to put in place in order to achieve and maintain the objectives and the dates by which each measure will be carried out. This Annual Status Report (ASR) is an annual requirement showing the strategies employed by City of York Council (CYC) to improve air quality and any progress that has been made.

The statutory air quality objectives applicable to LAQM in England are presented in Table E.1.

2 Actions to Improve Air Quality

2.1 Air Quality Management Areas

Air Quality Management Areas (AQMAs) are declared when there is an exceedance or likely exceedance of an air quality objective. After declaration, the authority should prepare an Air Quality Action Plan (AQAP) within 18 months. The AQAP should specify how air quality targets will be achieved and maintained, and provide dates by which measures will be carried out.

A summary of AQMAs declared by City of York Council can be found in Table 2.1. The table presents a description of the AQMA that is currently designated within York.

Appendix D: Map(s) of Monitoring Locations and AQMAs provides maps of the AQMA and also the air quality monitoring locations in relation to the AQMA. The air quality objectives pertinent to the current AQMA designation are as follows:

- NO₂ annual mean

Table 2.1 – Declared Air Quality Management Areas

| AQMA Name | Date of Declaration | Pollutants and Air Quality Objectives | One Line Description | Is air quality in the AQMA influenced by roads controlled by Highways England? | Level of Exceedance: Declaration | Level of Exceedance: Current Year | Number of Years Compliant with Air Quality Objective | Name and Date of AQAP Publication | Web Link to AQAP |
|------------------------------------|---|---------------------------------------|---|--|----------------------------------|-----------------------------------|--|-----------------------------------|--|
| City Centre AQMA (AQMA Order No.5) | December 2018 (supercedes AQMA Order No. 4 declared Sept 2012) | NO ₂ Annual Mean | Inner ring road and properties included within multiple areas of technical breach | NO | 62 | 32 | Compliance across whole AQMA demonstrated in 1 year (2024) with compliance also demonstrated in 2020 | AQAP4 published July 2024 | Link to CYC's Fourth Air Quality Action Plan (AQAP4) |

- ☒ City of York Council confirm the information on UK-Air regarding their AQMA(s) is up to date.
- ☒ City of York Council confirm that all current AQAPs have been submitted to Defra.

2.2 Progress and Impact of Measures to address Air Quality in York

DEFRA's appraisal of last year's ASR supported the outlined measures to improve air quality across the city and accepted the conclusions reached for all sources and pollutants. Comments received by DEFRA in 2024 to inform this year's report were as follows:

- It was recommended that the 'Local engagement and how to get involved' section of the ASR could be expanded. This has been addressed in the Executive Summary in this ASR.
- It was requested that new AQAP4 measures should be incorporated into this ASR. A full summary of AQAP4 measures and progress is provided in this ASR.
- It was requested that trends in air quality within and outside the AQMA were differentiated and that a clear statement of how many diffusion tubes are inside and outside the AQMA boundary. There are 105 tubes within the existing AQMA and 127 outside, with 1 blank tube (total 233 tubes). Indicators CAN027, CAN028 and CAN038 in Section 3.3 provide an indication of trends in nitrogen dioxide inside the AQMA. Table A.1 shows which of CYC's continuous monitoring sites are located within the AQMA and some additional labelling has been added to the figures A.1-A.5 for clarity to distinguish sites inside/outside the AQMA.
- It was suggested that NO_x should be listed as NO₂ in table A.1 for clarity. This has been addressed in this ASR.
- It was requested to include a statement to confirm that the diffusion tube data had been uploaded to the Diffusion Tube data Entry System (DTDES). CYC confirms that this has been done for this ASR submission and all previous submissions.
- It was suggested that a screenshot of the bias adjustment factors spreadsheet could be included in the report. This has been included in Appendix C.

CYC has taken forward a number of direct measures during the current reporting year of 2024 in pursuit of improving local air quality. Details of all measures completed, in progress or planned are set out in Table 2.2. Twenty-nine (29) measures are included within Table 2.2, with the type of measure and the progress CYC have made during the reporting year of 2024 presented. Where there have been, or continue to be, barriers restricting the implementation of the measure, these are also presented within Table 2.2.

More detail on these measures can be found in their respective Action Plans – see [Fourth Air Quality Action Plan \(AQAP4\)](#).

Key completed measures are:

- **Bus service improvements** - CYC has worked in partnership with bus operators to introduce further zero emission electric buses to the York fleet, significantly reducing carbon, NO_x and particulate emissions across the city. Our work bringing Government funding to the city has enabled national bus company First Bus to set up one of its first net zero emission bus operations in the city. The York depot is one of the first outside London to be fully electric and the first in Yorkshire.
- **Reducing emissions from taxis** – We provided financial support to taxi drivers through our DEFRA funded Low Emission Taxi Grant scheme until June 2024 (when all funding had been allocated) so that at the end of December 2024, 40% of CYC licensed taxis were using petrol hybrid or zero tailpipe emission electric vehicles. The project encouraged the transition to low emission taxis within York, via the use of incentives and awareness raising. We also approved a new Taxi Licensing Policy in November 2024 that required vehicles to meet stricter emission standards to help improve air quality across the city.
- **Reduced CYC Fleet emissions** – we continued our phased EV fleet replacement programme for vehicles under 3.5t. At January 2025, 60% of CYC's operational van fleet were electric or plug-in hybrid electric vehicles.
- **Anti-idling initiatives** - we continued to promote our 'Kick the Habit' anti-idling campaign on Clean Air Day and throughout 2024 and worked with partners including schools and businesses to reduce the incidence of vehicle idling across the city. Further information about the campaign can be found on CYC's [Kick the Habit Webpage](#).
- **Upgrades to Electric Vehicle (EV) charging facilities** – we continued to upgrade our public electric vehicle charging network throughout 2024, consisting of 'fast', 'rapid' and 'ultra-rapid' charge points, as outlined in our [Public Electric Vehicle Charging Strategy](#). We also progressed two workshops with the Energy Saving's Trust (EST) as part of the development of our updated Public Charging Strategy, due in 2025. These sessions included a review of current options for on-street charging, for residents in terraced streets without off-street parking provision.
- **Low Emission Planning Guidance** - Throughout 2024, we continued to ensure that emissions and air quality impacts from new developments were appropriately assessed

and mitigated, exposure to poor air quality was reduced via good design practices and that new private trips were minimised via the provision of sustainable transport opportunities in line with our [Low Emission Planning Guidance](#).

- **Smoke Control Areas / domestic solid fuel burning** – we adopted a new enforcement policy for smoke emissions in CYC’s Smoke Control Area (SCA) in November 2024. The policy was developed in response to revisions to the Clean Air Act 1993 made through the Environment Act 2021. We also re-launched our DEFRA funded ‘Fuel for Thought’ campaign across CYC’s social media channels in October 2024; the campaign aims to raise awareness of the pollution caused by burning solid fuels and the dangers it can pose to health. CYC plan to consult on the expanding the Smoke Control Area to the whole of York in 2025.
- **Air pollution forecasting and alert service** – we launched a new DEFRA funded pollution forecasting and alert platform, [York Air Alert](#), in July 2024. The new service sends free air pollution alerts and health advice to those most likely to be affected by air pollution to help them minimise their exposure when pollution episodes are forecast.
- **Local Transport Strategy** - Executive Members approved a new [Local Transport Strategy \(LTS\)](#) in July 2024. The Local Transport Strategy sets out ambitions for York’s transport network and infrastructure until 2040. An Implementation Plan for the first period of the new LTS was approved by CYC’s [Executive](#) in November 2024. The Implementation Plan provides an approach to city-wide transformation that will reduce air pollution and enable more physical and social activity through promotion and facilitation of active and sustainable modes of transport. This is aligned with priorities set out in CYC’s Fourth Air Quality Action Plan (AQAP4).
- **Local Cycling and Walking Infrastructure Plan (LCWIP)** – this plan will develop more routes for active travel, enabling more people to choose to walk, wheel and cycle safely. The LCWIP was approved by CYC’s [Executive](#) on 12th December but will be a ‘living’ document that can be updated based on changing circumstances and priorities in the city.
- **Gillygate Traffic Signal Trial** – in December 2024, CYC’s [Executive Member for Transport](#) approved a traffic signal trial on Gillygate aimed at improving air quality in the Air Quality Management Area. The trial will be progressed throughout 2025 with support from partner organisations including The Gillygate Air Quality Group and the York Civic Trust. The proposed trial is anticipated to reduce the number of queuing vehicles in Gillygate which, in addition to improving local air quality, will also create a safer environment for pedestrians, wheelchair users and cyclists.

Complementary air quality initiatives delivered in 2024 through CYC's transport and carbon reduction work programmes included:

- **Cycle to Work Day** – CYC supported the UK's biggest cycle commuting event on Thursday 1st August 2024. Cycle to Work Day aims to get more people to swap their cars for bikes and enjoy a healthier, more sustainable way to commute.
- **York Walking Festival** – our annual walking festival took place in September 2024 with a programme of ideas on how to explore the city on foot. The festival, organised by CYC's iTravel team, aims to encourage active travel and reduce vehicle emissions.
- **BetterPoints** - Residents of York were invited to celebrate York's Environment Weeks by walking or taking the bus around town and be in with the chance to win free bus travel. Since being set up in August 2021 York's BetterPoints programme has reduced CO₂ output by 391,433 KG and allowed residents to travel 1,653,748 miles in a sustainable way (figures from Sept 2024)
- **Greet Streets** - Almost 2,500 new trees have been planted as part of the council's [Green Streets project](#). Working with local schools, parish councils and other stakeholders, trees have been planted along Malton Road and at Melrosegate Park, Huntington Environment Park, Carr Infants School, Lakeside Primary Academy, Burton Green Primary and seven other school sites.
- **York Climate Commission (YCC)** was relaunched by CYC at an event on 11th January 2024, at Merchant Adventurers' Hall in York. Organisations, businesses and councillors met to discuss how they can best improve the future of York's climate impact. During the event, members of more than 80 organisations shared thoughts on challenges to York's progress to net zero.
- **Council wins Award for Energy Efficiency Scheme** - CYC and E.ON Energy Solutions Ltd won the Regional Large-scale Project of the Year award, at the Yorkshire Energy Efficiency Awards 2024 for the delivery of a [Social Housing Decarbonisation Fund \(SHDF\)](#) scheme. Staff from the Home Energy Efficiency Team in CYC's Healthy and Sustainable Homes service received the award for work to retrofit houses in York with energy efficiency measures. A variety of different measures in each home reduced carbon emissions by an average of 30% per property and included insulation - cavity wall, external wall, loft and flat roof – as well as solar photovoltaic panels, smart heating controls, hybrid air source heat pumps, new external doors and double-glazed windows. The award was given for 95 retrofit measures on 28 social housing properties at Danebury Court and Harington Avenue and a property at Carl Street. The work was funded by the Government's Department of Energy Security and Net Zero.

- **Cut carbon costs for businesses workshop** - CYC's partner [Green Economy](#) ran a Cut Carbon Cut Costs Online Workshop for businesses based in York in July 2024 with practical steps to reduce energy use and save money.
- **Energy grants for homes not heated by mains gas** – we continued to award funding to help households not using mains gas become more energy efficient through a [Home Upgrade Grant](#). Grants were available for up to 60 households for energy-efficiency measures ranging from insulation upgrades to modern low-carbon heating systems or even photovoltaic (PV) panels.
- **Solar for Schools** - Our work with the Solar for Schools scheme, which gives schools and academies the opportunity to install solar panels for free, helped city schools cut costs and carbon emissions. Dringhouses Primary School was one of the schools to have solar panels fitted. 76 panels were installed at the school, which generated 3,385kWh of energy, saving 772kg of emissions over a two-month period. Solar for Schools has installed 2,468 panels across eight schools and academies in York and in the last year over 530MWh of energy has been produced, saving over 121t of CO₂ being released.
- **York Community Woodland opens to the public** - York Community Woodland is now open to the public after years of preparation work, another achievement which demonstrates to our commitment to Climate and Environment, the third commitment of the Council Plan, One City for all. Over the past five years, 190,000 trees have been planted across the 78-hectare site west of Knapton, an achievement made possible with the help of dedicated efforts from local volunteer groups.
- **York's two new micro woods sites are confirmed** - In September 2024, Councillors approved the locations of two new micro woods to be planted in the city through the Government's Coronation Living Heritage Fund. CYC's Green Streets team selected two sites from 50 locations using tools such as the Tree Equity Score to determine the most suitable location. The woods, each consisting of 600 trees, will be created in Rawcliffe and Holgate.
- **YorEnergy: Energy Solutions for Every York Home** – A new service to help residents achieve home energy efficiency and save on rising energy bills was launched in October 2024. [YorEnergy](#) offers a friendly all in one service to guide residents through the home upgrade process, including free advice on the best energy-saving options.

City of York Council's priorities for the coming year and measures that we anticipate to progress are:

- **Progress development of York's future transport policies** – CYC's [Local Transport Strategy](#) (approved July 2024) sets out a vision for a healthier, more sustainable and better-connected city. Our [Transport Implementation Plan](#) (2024-2026) details the measures that will enable is to turn that vision into a reality and build the foundations for our forthcoming Movement and Place Plan (due by the end of 2025), which will map out connected networks for all modes of travel.
- **Explore opportunities to reduce freight emissions** – CYC's Local Transport Strategy and AQAP4 commit to exploring opportunities to improve freight and logistics to ensure that that York's businesses have efficient access for their supplies, goods and services, while at the same time reducing the impact of heavy lorries and light goods vehicles on carbon emissions, air pollution, safety and damage to heritage. In the short term we propose to designate a 'freight network' for medium (3.5T) and large (7.5T) vehicles and review powers to enforce such a network. We will also set up a freight forum and invite industry partners and experts to advise and partner with us on developing a freight strategy and network for the city. We also propose to implement a scheme allowing cargo delivery cycles access to the city centre footstreet during footstreet hours. In 2021, CYC obtained funding from DEFRA to pilot a transshipment hub for the city, but this project has proved difficult to deliver to date, in part due to the challenge of attracting a commercial partner. We are actively seeking ways of delivering this project and are taking advice from other cities where successful similar pilots have been delivered in combination with commercial partners. We also aim to continue investigating the potential for a Clean Air Zone applied to freight vehicles to further reduce emissions.
- **Continue to progress upgrades to bus services and infrastructure (including further electrification)** – presently there are around 14 million bus trips a year in York (nearly 40,000 a day). Electric buses now account for around 65% of all bus journeys in York. We will continue with our programme to electrify the bus network, aiming to completely electrify the network by 2028 (subject to funding). In the short term (2025-2026) we will deliver a 'city centre sustainable transport route' which will facilitate substantial reductions in through private traffic with active travel, public transport and essential journeys prioritised. This will not only improve bus service reliability and enhance air quality along the corridor but will provide safer walking and cycling routes into the heart of York city centre.

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- **Sustainable Travel / Reducing car dependency** – we will continue to focus staff resource on promoting sustainable transport, utilising grants and developer contributions where available to provide advice to residents, employers and developers about how to make the most of active modes and public transport. This will involve an expanded programme of travel plans for individuals, schools, businesses and new developments. We will support sustainable travel events including community walks, cycle rides and car-free days and will host the 'Active City' conference in Summer 2025. We will pursue a programme of School Streets so that the travel needs of children travelling to school are prioritised and will engage with the health sector on initiatives such as social prescribing of cycles and loan of e-bikes for health professionals. We will continue with our current Car Club initiative and over the coming year we will procure further Car Club packages to provide more extensive coverage across the city and out to villages, including access to a wider variety of vehicle types including vans. We will also develop a consistent and equitable strategy for parking across the city which balances the needs to provide access and to reduce levels of car use and will continue to investigate 'micro-mobility' schemes (with the intention of replacing the TEIR mobility scheme that came to an end in 2024).
- **Continue to address idling emissions** – CYC will continue to investigate complaints of idling and raise awareness of the links between idling emissions and health in line with CYC's existing 'Kick the Habit' anti-idling campaign. We will respond to complaints of idling through additional resources and signage where appropriate.
- **Continue to reduce emissions from taxis through implementation of new Licensing Policy** - The council's Hackney Carriage and Private Hire Licensing Policy was approved by Council on 21 November 2024 and came into force on 22 November 2024. The policy will introduce an age limit and minimum emission standard for York's operational taxi fleet which will see a gradual change in the operational taxi fleet, as vehicle licenses are renewed and as vehicles become too old to operate in the city.

CYC will continue to keep abreast of national grant opportunities for low emission taxis and provide advice to operators / drivers.

- **Reduce emissions from new development** – we will continue to work with developers to ensure development related emissions are appropriately assessed and mitigated, exposure to poor air quality is reduced via good design practices and that new private trips are minimised via provision of opportunities for sustainable transport. We will continue to encourage walking, cycling and low emission public transport use, which have co-benefits for health and wellbeing.
- **Expansion of strategic EV charging network** – CYC will continue with our EV charging programme and actively monitor plug-in vehicle uptake in the city to ensure our charging network remains fit for purpose. York has a developing network of electric vehicle charging points positioned in car parks, Park & Ride sites and at dedicated Hyper Hub charging sites. Over the coming year we will complete the update of our 'EV Charging Strategy' and seek ways to bring widespread coverage, using our Parking Strategy to help us balance competing needs of highway space. We will continue to explore technology advances, such as inductive charging and will trial charging in residential areas (and evaluate its success and scope for further installations in York).
- **Improving public awareness of air pollution** – we will promote our DEFRA funded air pollution forecasting and alert platform. The platform has been designed to ensure the most vulnerable residents have access to information that allows them to minimise exposure when pollution levels are high. We will seek to improve awareness of the links between all air pollution and health impacts generally to support CYC's ongoing LAQM and public health work. This will include raising public awareness of the links between domestic solid fuel burning, particulate emissions and health impacts.
- **Further controls to address fine particulate emissions** – we will consider further opportunities to tackle fine particulate emissions. This will include implementation of a new Enforcement Protocol for smoke emissions within CYC's Smoke Control Area (SCA). We will also consult with the public on expansion our SCA to cover the whole of CYC's administrative area to improve air quality and health.

City of York Council worked to implement these measures in partnership with the following stakeholders during 2024:

- Departments across CYC including Public Health and Sustainable Transport
- Residents of York

- Local schools
- York and Scarborough Teaching Hospitals NHS Foundation Trust
- York Bus operators
- York Taxi Driver / Associations (and vehicle dealerships for taxi grants)
- Freight operators and local retailers
- York Civic Trust (YCT)
- University of York

The principal challenges and barriers to implementation that City of York Council anticipates facing are:

- The ability of current vehicle emission standards to deliver reductions in NO_x emissions, particularly the on-road performance of some Euro VI (and retrofitted) diesel vehicles. This extends to the remaining retrofitted Euro VI diesel buses operating in the city.
- Development related emissions through the cumulative impact of increased development in the city. CYC will endeavour to manage this through the application of local planning guidance, best practice emission mitigation measures and opportunities for sustainable transport. CYC's Transport Strategy sets a target of 20% reduction in vehicle miles travelled by 2030, which will need to be supported by significant increases in walking, cycling and use of public transport across York.
- Addressing air pollution from domestic solid fuel burning, especially during winter months, may present challenges as people turn to solid fuels to heat their homes in response to the energy and cost of living crisis. This may be further exacerbated in certain areas where fuel poverty may be a factor in the burning of non-certified wood products / waste wood or other materials. CYC has aimed to tackle this issue over the last couple of years through it's 'Fuel for Thought' educational campaign and is currently seeking to expand the Smoke Control Area to cover the whole of CYC's administrative area.
- Uncertainties with respect to future travel behaviour and challenges in achieving required modal shift targets to sustainable modes.
- Continued unnecessary vehicle idling in the city, particularly amongst heavy diesel vehicles.

Despite longer term improvements seen in air quality across CYC's area in recent years, the above factors are anticipated to remain challenges for CYC in the future.

Progress on the following measures has been slower than expected:

- **Pilot micro-consolidation centre (AQAP4 Measure 1b)** – CYC previously obtained funding from DEFRA to pilot a transshipment hub for the city, but this project has proved difficult to deliver to date due to withdrawal of the primary delivery partner at an advanced stage of the project and the ongoing challenge of attracting a new commercial partner. We are actively seeking ways of delivering this project and are taking advice from other cities where successful similar pilots have been delivered in combination with commercial partners. CYC is having ongoing discussions with DEFRA about this project. Whilst we aim to progress this pilot in 2025, this is subject to a new delivery partner being found. The pilot delivery hub will aim to maximise the efficiency of city centre deliveries, using e-cargo cycles and EVs, thereby minimising the need for large vehicles to enter the city centre.

CYC anticipates that the measures stated above and in Table 2.2 will achieve compliance in all areas of the city centre AQMA (Order No.5).

Table 2.2 – Progress on Measures to Improve Air Quality

The estimated efficacy of measures in terms of ‘overall emission impact’ is colour coded from **red** (least impact) - **amber** - **green** (most impact). Rows shaded in yellow will be published on [UK-AIR](#)

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| 2b | Work in partnership with bus operators to pursue an all-electric, zero emission bus fleet for all services operating predominantly in the York urban area | Vehicle Fleet Efficiency | Promoting Low Emission Public Transport | 2024 | 2025 | CYC Sustainable Transport Bus operators Manufacturers of low emission buses Charging infrastructure providers | DfT Bus Operators (match funding) | Funded | >£10m | Implementation | <p>Buses generally contribute less than 10% of traffic emissions on the majority of streets and are most significant on roads with proportionally less emissions, where bus flows form a larger proportion of the overall traffic. In areas like George Hudson Street and Blossom Street, between 10 - 25% of the total road NOx emissions are due to buses</p> <p>AQAP4 section 3.5 estimates that electrifying the remaining bus fleet would result in around 6% reduction in overall NOx emissions (for the area modelled). However, this is dependent upon bus frequency / the area of York.</p> <p>New buses will be used on First's routes 1, 4, 5 and 6, for the York Hospital shuttle bus and on Park&Ride route 2, reducing carbon emissions in York by 2,300 tonnes per year as well as reducing NO_x and PM emissions across the city. This adds to the current annual reduction of 1,600 tonnes achieved by the zero-emission Park and Ride fleet.</p> | <p>% Electric Bus within 'urban' bus fleet</p> <p>BSIP target to convert all bus services operating predominantly in the York urban area to electric vehicles by 2024/25.</p> <p>Enhanced Partnership Plan (Sept 2022) contains high level objective of At least 90% of bus services operating predominantly in the York urban area to be operated using electric vehicles by 2024/25.</p> | <p>CYC has adopted a four-phase transition to electric drive for buses</p> <p>Phase 1 saw conversion of York's Park & Ride fleet operated by First York. In this phase 33 electric buses were introduced to serve the 5 Park & Ride sites in York for which electric buses are practicable (completed late 2020).</p> <p>Phase 2 saw the roll out of an electric fleet to York's frequent, urban non-Park & Ride routes. This was supported by £10.2M of ZEBRA1 funding, which electrified all First York's remaining diesel fleet (53 vehicles) throughout 2023/24. First's depot also received a power upgrade to make it one of the first fully electric depots outside London.</p> <p>Phase 3 of the process (ongoing) seeks to convert non-frequent routes in York and those which are urban/rural in character. This phase of the electrification programme involves nearly all of York's operators.</p> <p>Phase 4 will convert the inter-urban routes. To date, no suitable vehicle has been marketed for this stage, but that is likely to change as battery technology develops. It is also possible that the Phase 4 conversions will rely on an alternative technology, such as hydrogen.</p> <p>CYC aim to completely electrify the network by 2028.</p> | <p>Additional benefits include reduction in carbon emissions, noise pollution and improved passenger (and driver) experience</p> <p>Opportunities to work with York tour bus operators to facilitate upgrades</p> <p>The positive conversion of York's largest operator, First, will be important in familiarising the other operators in the city with electric vehicles.</p> <p>Through our Enhanced Partnership (EP) CYC holds regular meetings with operators and stakeholders where feedback and participation from all bus user and disability groups is actively welcomed.</p> |

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| 6 | Delivery of CYC Public EV Charging Strategy / roll-out of additional charge points / hubs | Promoting Low Emission Transport | Procuring alternate refuelling infrastructure to promote Low Emission Vehicles, EV Charging | 2024 | Ongoing – Current Strategy introduced 2020 and will run until 2025 with annual review | CYC Transport (EV Strategy) BP Pulse (access partner) EV Charge Point manufacturers | CYC | Funded | £1m - £10m | Implementation | Emission reduction dependent upon EV uptake. For every conventionally fuelled vehicle replaced local emissions of NO _x and tailpipe PM ₁₀ are eliminated. AQAP4 section 3.5 estimates that enabling 10% of cars and LGVs to switch to electric would result in around 9% reduction in overall NO _x emissions (for the area modelled). | Number of operational fast, rapid and ultra-rapid CYC charge points was 103 at Jan 2025 No. of charging episodes at CYC charge points: 2022 - 24,109 2023 – 36,219 2024 – 38,715 | Extensive 'pay as you go' fast charge public electric vehicle recharging network consists of 103 chargers (Jan 2025) Two Hyperhub sites delivered and operational with two further Hyperhub sites in development Local Transport Strategy <u>Implementation Plan</u> commits to trialling charging in residential areas and evaluating its success and scope for further installations in the city. CYC officer workshops were progressed with independent expert body the Energy Saving Trust (EST) on 9th July and 18th November 2024 to consider options for on-street charging and policy/strategy options. Updated 'Public EV Charging Strategy' currently being developed and due for publication by the end of 2025. | Work programme agreed and funded CYC will monitor plug-in vehicle uptake in York and usage of CYC's network (at least annually) to assess if charge point provision meets demand. |
| 9b | Air Quality Alert / Notification Service | Public Information | Via the Internet / Via other mechanisms | 2024 | 2024 | CYC Public Protection / Public Health External IT platform provider | DEFRA AQ Grant | Funded | £50k - £100k | Complete | Measure aimed at reducing exposure rather than pollution reduction per se | Ongoing platform usage (e.g. visitor stats and subscriptions to notification service), supplemented with registered platform user feedback | DEFRA AQ Grant obtained for Air Quality Forecasting and Alert Service in 2023. The <u>York Air Alert</u> service was launched in July 2024 and has been promoted across GP surgeries, hospitals and pharmacies across CYC's area. The service has also been extensively promoted across CYC's social media channels and via printed press. At January 2025 there were 153 registered users | Will result in improved knowledge and awareness of air pollution, links to health impacts, and means to reduce exposure to pollutants via lifestyle choices / travel route / modal choice We will also explore wider behaviour change messaging in response to high pollution episodes |
| 1a | Explore opportunities / options for reducing freight emissions | Freight and Delivery Management | Delivery and Service Plans Freight Consolidation Centre Freight Partnerships for city centre deliveries | 2024 | 2025/26 | CYC Freight transport industry Local operators York Civic Trust Local Enterprise Partnership | DEFRA funding secured for feasibility study and pilot | Partially funded | £100k - £500k | Planning | Baseline emission assessment undertaken (2021) demonstrated that HGVs are a significant emission source on the majority of major roads where they contribute 15 – 25% of total road NO _x emissions and up to 55% in some areas. LGVs generally | Reduction in freight mileage / freight emissions | Initial feasibility study to address first/last mile delivery of light goods in York undertaken Oct/Nov 2021. Freight forum established 2021 A new <u>Local Transport Strategy</u> | Whilst the initial first/last mile feasibility study was funded, any permanent consolidation facilities would be subject to further costing and investment |

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| | | | | | | York Business Improvement District (BID) | | | | | responsible for less than 10% of road traffic NOx emissions, but are more significant in certain areas such as the outer ring road and on key routes like Fulford Road, representing up to 25% of total road emissions. AQAP4 section 3.5 estimates that reducing HGV/LGV volumes by 25% would result in around 8% reduction in overall NOx emissions (for the area modelled). | | <p>(LTS) was approved in July 2024. The LTS sets out ambitions for York's transport network and infrastructure until 2040.</p> <p>An Implementation Plan for the first period of the new LTS was considered by CYC's Executive in November 2024. The <u>Implementation Plan</u> outlines medium term commitments to create an environment where pollution, noise and road wear and tear from freight vehicles is as low as possible, with operators using electric or other low pollution vehicles.</p> <p>CYC's is currently in the process of developing a Movement and Place Plan which will reallocate road-space to create safe and connected networks for walking, wheeling, cycling, public transport, cars and freight for residents, businesses and visitors alike. CYC's LTS commits to explore opportunities to improve freight and logistics to ensure that that York's businesses have efficient access for their supplies, goods and services, while at the same time reducing the impact of heavy lorries and light goods vehicles on carbon emissions, air pollution, safety and damage to heritage. Movement and Place Framework prepared by Phil Jones Associates (PJA) in July 2024.</p> | |
| 1b | Undertake pilot project to test 'micro-consolidation centre' for distribution of commercial light goods | Freight and Delivery Management | Freight Consolidation Centre | 2024 | 2025/26 | <p>CYC</p> <p>Local delivery operators and support staff</p> | DEFRA funding secured for pilot | Funded | £100k-£500k | Planning | <p>Subject to evaluation of pilot and reduction in freight mileage</p> <p>AQAP4 section 3.5 estimates that reducing HGV/LGV volumes by 25% would result in around 8% reduction in overall</p> | <p>Completion / evaluation of pilot</p> <p>Reduction in freight mileage / freight emissions (as demonstrated through pilot)</p> | Report to CYC Transport Board in June 2024 to consider options available following withdrawal of principal delivery partner in August 2023. The project was approved to continue by re-contacting other parcel carriers, who | <p>Pilot funded through DEFRA Air Quality Grant</p> <p>Anticipated that the pilot will be supported by <u>Blueberry Academy</u>, who provide specialist support for young</p> |

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| | | | | | | | | | | | NO _x emissions (for the area modelled). | | had previously expressed interest in the project. In June 2024, CYC's Transport Board agreed to continue the project based on the Blueberry Academy / Greenlink Delivery Hub option. | people and adults with learning differences, autism, social, emotional and mental health needs and/or other disabilities. This project has been significantly delayed due to project management capacity at CYC |
| 1c | Consider feasibility of extending Clean Air Zone to include freight vehicles | Promote Low Emission Transport | Clean Air Zone (CAZ) | 2024 | Currently unknown | CYC Freight transport industry Local operators York Civic Trust Local Enterprise Partnership York Business Improvement District (BID) | Currently unknown | Not Funded | Currently unknown | Planning | Currently unknown | To be developed | CYC Council Plan 2023 – 2027 aspiration to consider extension of CAZ to freight vehicles Member briefing note produced in September 2024, which included a review of other CAZ schemes across the UK. Considered that the last mile delivery pilot (measure 1b) needs to successfully demonstrate that ultra-low or zero emission means of delivery can operate successfully in York in the first instance. Such initiatives have the potential to remove diesel HGV traffic from the network and therefore bring about air quality improvements in key areas. | Expansion of the CAZ to include HGVs is not being actively pursued at present due to the potentially considerable enforcement costs alongside increased costs and inconvenience to city centre businesses. A review of ANPR data also showed that there are a high proportion of Euro 6 HGV vehicles already in operation in the city, thereby weakening the potential effectiveness of a CAZ on AQ grounds alone. |
| 2a | Upgrade (CAZ exempt) inter-urban and rural services to ultra-low emission (electric) vehicles | Promoting Low Emission Transport | Clean Air Zone (CAZ) | 2024 | 2025 | CYC Sustainable Transport Bus operators Manufacturers of low emission buses Charging infrastructure providers Emissions abatement equipment providers | DfT Bus operators (match funding) | Funded | TBA | Implementation | Buses generally contribute less than 10% of traffic emissions on the majority of streets and are most significant on roads with proportionally less emissions, where bus flows form a larger proportion of the overall traffic. In areas like George Hudson Street and Blossom Street, between 10 - 25% of the total road NO _x emissions are due to buses AQAP4 section 3.5 estimates that electrifying the remaining bus fleet would result in around 6% reduction in overall NO _x emissions (for | % inter-urban and rural services electric / Euro VI diesel BSIP target to convert all inter-urban and rural services to Euro VI diesel by 2024/25 (if it not practical to electrify the routes) Enhanced Partnership Plan (Sept 2022) contains high level objective of at least 95% of inter-urban and rural services to be operated using vehicles of Euro VI standard or better by 2024/25. | See update for associated measure 2b. Phases 3 and 4 of CYC's bus transition strategy cover inter-urban and rural services. Where it is not practical to electrify routes, all inter-urban and rural services will be upgraded to Euro VI | An advisory minimum emission standard applied to CAZ exempt vehicles of Euro IV by January 2020, increasing to Euro V from January 2022 and ULEB / Euro VI from January 2024 |

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| | | | | | | | | | | | the area modelled). However, this is dependent upon bus frequency / the area of York. | | | |
| 2c | Extend CAZ (for buses) to York Central | Promoting Low Emission Transport | Clean Air Zone (CAZ) | 2024 | 2025 | CYC Sustainable Transport Bus operators Traffic Commissioners Office | Currently unknown | Not funded | Currently unknown | Planning | - | Change to the Traffic Regulation Condition (TRC) | CYC Council Plan 2023 – 2027 aspiration to consider extension of CAZ area to York Central. Work to formalise the CAZ extension to York Central currently in progress. | Subject to discussions with the Traffic Commissioners Office and a change to the Traffic Regulation Condition |
| 3a | Continued promotion of CYC 'Kick the Habit' campaign | Traffic Management Public Information | Anti-idling enforcement Via leaflets / the Internet / Other | 2024 | Ongoing | CYC Public Protection / Parking Services / Sustainable Transport. Bus companies, taxi companies, freight / delivery companies, local businesses. Promotion undertaken with partners such as York Hospital, University of York and local schools | CYC internal funding for ongoing promotion and development of resources to support the campaign | Funded | <£10k | Implementation | Previous feasibility work undertaken by CYC suggested at 5 busiest service bus locations, estimated savings of 1,526kg NO _x , 36kg PM ₁₀ , 46,555kg CO ₂ , and 17,949 litres of fuel per year could be made by addressing idling. | Estimate of idling time saved (mins) | Existing 'Kick the Habit' campaign Annual promotion on Clean Air Day Schools – 'Kick the Habit' anti-idling campaign in school newsletters for Clean Air Day 2024 Confederation for Passenger Transport (CPT) – CYC's Kick the Habit anti-idling campaign promoted in national newsletter which goes out to all CPT members, that features the latest news, views and compliance matters impacting on the industry Further promotion of 'Kick the Habit' in December 2024 with emphasis on minimising engine idling whilst defrosting vehicle windscreens during the winter period | Partnership working with schools, hospital and academic institutions Opportunities to roll-out campaign in other local authority areas Awareness raising with commercial operators |
| 3b | Erect further signage / develop new anti-idling resources / review approach to anti-idling enforcement | Traffic Management | Anti-idling enforcement | 2024 | Ongoing | CYC Public Protection / Parking Services / Sustainable Transport | CYC | Partially funded | New resources <£10k Staff resource for enforcement subject to higher costs but opportunities to incorporate idling duties into other related posts. | Implementation | Difficult to quantify exact emission savings as measures aimed at preventing idling / education | N/A | Permanent signage in CYC car parks, at most city centre bus stops, multiple taxi ranks and at other key locations since scheme launch in 2019. Union Terrace Coach park signage was refreshed in 2024. Anti-idling leaflets produced for different target audiences (schools, taxi drivers, commercial vehicles etc) Additional permanent advisory anti-idling signage was erected along Gillygate and on | CYC only has powers to enforce unnecessary vehicle idling on the public highway and on CYC owned land. The regulations do not allow CYC to take action against motorists who are idling their engines whilst queueing in traffic / at traffic lights. CYC Parking Services undertake regular patrols across York and can enforce idling offences in CYC owned coach and car parks. CYC's Environmental Protection team |

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| | | | | | | | | | | | | | the surrounding roads in May/June 2024 to encourage motorists to switch off their engines whilst queuing. Anti-idling patrols were undertaken in response to public complaints of stationary idling on the public highway. | undertake patrols in response to persistent idling complaints and follow up all complaints of idling by commercial operators. |
| 4a | Review and update of CYC Taxi Licensing Policy to accelerate uptake of ULEVs | Promoting Low Emission Transport | Taxi Licensing conditions | 2024 | 2024 | CYC Public Protection / Taxi Licensing | CYC | Funded | £10k - £50k | Complete | Air quality / emissions impacts realised as fleet replaced over time in line with policy revisions | Adoption of new Taxi Licensing Policy | <p>Previous consultation with the taxi trade around vehicle standards in 2020</p> <p>Consultation on updated Taxi Licensing Policy in June/July 2024. The revised policy was approved by Council in November 2024 requires vehicles to meet stricter emission standards to help improve air quality across the city. The policy also supports the supply of more wheelchair-accessible taxis and aims to increase awareness of and extend safeguarding standards among drivers and operators.</p> <p>From November 2024, the new policy requires all new private hire vehicle applications and all replacement hackney carriage / private hire vehicles to be a minimum of Euro 6 standard and less than 10 years old. The age limit does not apply to ULEVs (<75g/km CO₂) or Euro 6 wheelchair accessible vehicles.</p> <p>From November 2027, vehicle licences will not be renewed by CYC unless they meet these requirements (Euro 5 wheelchair accessible vehicles were granted an additional 3 years to November 2030).</p> | CYC will also consider opportunities for addressing emissions associated with non-CYC registered taxis that operate in the city |
| 4b | Seek further opportunities for CYC to support taxi drivers to upgrade vehicles to ULEVs | Promoting Low Emission Transport | Taxi emission incentives | 2024 | Ongoing | CYC Public Protection / Taxi Licensing Taxi Drivers | Will require external funding | Not funded | £500k - £1m | Planning | Converting the remaining taxi fleet to electric or petrol-hybrid technology can offer considerable emission savings | % low emission taxis (electric / PHEV / hybrid) across CYC licensed taxi fleet | CYC delivered a Low Emission Taxi Grant scheme between November 2020 and June 2024. The project encouraged the transition to low | CYC will also work alongside the taxi trade to understand requirements of charging infrastructure needs. |

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| | | | | | | | | | | | compared with older diesel technology | At January 2025 this was 40% | emission taxis within York, via the use of incentives and awareness raising. The scheme provided £105k in grant funding and has supported 38 CYC licensed taxi drivers with either purchase costs or operational costs for low or zero-emission vehicles. | |
| 4c | Consider feasibility of extending the Clean Air Zone to include taxis | Promoting Low Emission Transport | Clean Air Zone (CAZ) | 2024 | Currently unknown | CYC Public Protection / Taxi Licensing Taxi Trade | Currently unknown | Not funded | Currently unknown | Planning | Currently unknown | To be developed | CYC <u>Council Plan</u> aspiration to consider extension of CAZ area to include taxis | Subject to further feasibility work |
| 5a | Implement an EV fleet replacement programme for all vehicles under 3.5 tonnes | Promoting Low Emission Transport | Company Vehicle Procurement – Prioritising uptake of low emission vehicles | 2024 | 2025 | CYC Highways and Fleet | CYC | Funded | £1m - £10m Estimate of costs of upgrades to 153 vehicles over programme lifetime (capital and revenue costs) | Implementation | Fleet electrification will eliminate tailpipe emission of NO _x /PM | % of EVs in CYC Fleet <3.5T Jan 2025 figure was 60% | Phased fleet programme underway for vehicles under 3.5 tonnes Upgrades to power distribution at Hazel Court Depot finalised 2023/24 A new multi-purpose mini electric vehicle, known as a Goupil, went into service on 29 April 2024. At January 2025, 60% of CYC's operational van fleet were electric (87 vans) or plug-in hybrid electric vehicles (1 Van). | Phased vehicle upgrades as part of replacement programme will see gradual increase in EVs across all service areas |
| 5b | Explore options for fleet vehicles over 3.5 tonnes to move away from diesel | Promoting Low Emission Transport | Company Vehicle Procurement – Prioritising uptake of low emission vehicles | 2024 | Ongoing | CYC Highways and Fleet | CYC | Partially funded | £1m - £10m | Implementation | CYC's 2020 vehicle fleet emitted 1763t of CO ₂ every year (including HDVs). NO _x /PM reduction not estimated | % ULEV (over 3.5 tonnes) Jan 2025 figure was 4.7% (2 electric refuse vehicles and 1 electric pick-up) | Zero-emission 'eCollect' refuse collection vehicles (eRCVs) are used six days a week on commercial waste collections benefitting the city with zero emissions and quieter operations. | CYC will continue to arrange trials and evaluation of vehicles to assess suitability for core service areas. |
| 5c | Maximise CYC journey efficiency (and minimise emissions) through use of telematics, training and sustainable travel options for staff | Vehicle Fleet Efficiency | Driver training and ECO driving aids | 2024 | Ongoing | CYC Highways and Fleet / Rethinking Travel | CYC | Funded | Dependent upon exact options progressed | Implementation | NO _x /PM reduction not estimated | Telematics feedback and evaluation Use of pool bikes, car club vehicles | ECO driver training previously undertaken Ongoing programme of training for HGV drivers e.g. Certificate of Professional Competence (CPC) Masternaut telematics system rolled out to all CYC vehicles Low and zero emission pool vehicles / Car Club vehicles available for staff use during working hours (7 dedicated vehicles across 4 locations). | - |

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| | | | | | | | | | | | | | 30 CYC pool bikes available across 12 locations New portal in development with Enterprise Car Club for prioritisation of travel options for CYC staff | |
| 7a | Review / update Low Emission Planning Guidance and ensure alignment with carbon reduction policies | Policy Guidance and Development Control | Air Quality Planning and Policy Guidance | 2024 | 2025/26 | CYC Public Protection / Planning / Integrated Strategy / Carbon Reduction | CYC | Funded | £10-£50k | Implementation | NO _x /PM reduction not estimated | Revision / adoption of updated low emission planning guidance | Draft guidance available and currently being actively used for development control purposes Update in progress | Cost anticipated mainly in relation to staff time and consultation CYC will ensure that local standards for EV charging infrastructure provision remain appropriate for current EV use (and anticipated future EV uptake) in the city and are aligned to CYC's vision as laid out in CYC's EV Charging Strategy. Consideration of energy efficiency with respect to commercial / domestic heating Consideration of low NO _x boiler technologies Aim to ensure that heating technologies in new developments achieve the lowest emissions possible, considering both local air quality and carbon reduction targets Consideration of emissions from Non-Road Mobile Machinery (NRMM) and local standards. |
| 7b | Ensure development related emissions are appropriately assessed and mitigated in line with CYC guidance | Policy Guidance and Development Control | Air Quality Planning and Policy Guidance | 2024 | Ongoing | CYC Planning / Public Protection Developers | CYC | Funded | £50-£100k Staff time plus oncosts | Implementation | NO _x /PM reduction not estimated, but will be site specific dependent upon mitigation | Planning applications reviewed in terms of air quality | Ongoing assessment of planning applications Development of standard planning conditions for air quality issues Development of local standards for EV charging provision AQ Policy ENV1 developed as part of Local Plan | Cost anticipated mainly in relation to staff time for implementing guidance Assessment of air quality impacts will consider cumulative impacts from nearby sites to minimise 'emission creep' across the city. Standards for EV charging provision subject to annual review |

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| 8 | Continue to explore incentives and opportunities to encourage the wider uptake of low and zero emission vehicles | Promoting Low Emission Transport | <p>Priority parking for LEV's</p> <p>Company Vehicle Procurement - Prioritising uptake of low emission vehicles</p> <p>Public Vehicle Procurement - Prioritising uptake of low emission vehicles</p> | 2024 | Ongoing | <p>CYC Transport / Public Protection / Parking Services / Transport Planning</p> <p>Partners may include infrastructure delivery partners, developers, micro-mobility solution providers</p> | CYC | Not funded | Scheme dependent | Planning | AQAP4 section 3.5 estimates that enabling 10% of cars and LGVs to switch to electric would result in around 9% reduction in overall NO _x emissions (for the area modelled). | <p>Number of low emission parking permits issued</p> <p>Further ULEV / ZEV / micro mobility trials undertaken</p> | <p>Parking incentives whilst use of rapid and ultra-rapid charge points</p> <p>Low emission discount offered on parking permits. We consulted with the public on levels of discount for low emission vehicles for residents parking and season tickets as part of our Big Budget Conversation in Nov/Dec 2024.</p> <p>Advice to businesses on EV transition and infrastructure</p> <p>The TIER e-scooter and e-bike trial ended on 31 May 2024. York's e-scooter rental scheme was part of the Department for Transport micro-mobility trial. Since the trial began nearly 60,000 e-scooter and e-bike users in York have covered more than 820,000 miles in over half a million journeys. CYC is exploring opportunities for trials of further micro-mobility modes.</p> | CYC will explore further incentives to increase use of micro-mobility modes, such as E-Bikes / E-Scooters |
| 9a | Improve public access to air quality information and advice | Public Information | Via the Internet | 2024 | Ongoing | CYC Public Protection / Public Health | CYC | Partially funded | <£10k Annual review and update of web content | Implementation | N/A | <p>Web content subject to ongoing periodic review to consider topics of local significance and interest</p> <p>Availability of local, up to date, air quality monitoring data and annual summary reports</p> | <p>Air quality pages of CYC website updated as necessary throughout 2024</p> <p>Real-time air quality data publicly available at Air Quality England. Communication equipment upgrades progressed at 2 continuous monitoring sites throughout 2024 (Gillygate and Holgate) to facilitate rapid data dissemination.</p> <p>Diffusion tube data publicly available on YorkView</p> <p>Promotion of smoke control area (SCA) requirements</p> | <p>Updates will assist with providing information to the public about the health impacts of air pollution and how behavioural change can reduce emissions and exposure. Updates will also cover issues such as the impacts of bonfire smoke</p> |
| 9c | Local promotion of 'Burn Better' campaign and rules around Smoke Control Areas (SCAs) | Public Information | Via the Internet / Via leaflets / Via other mechanisms | 2024 | Ongoing | CYC Public Protection / Public Health | CYC for ongoing local promotion of SCAs and existing campaigns | Funded | Local promotion of SCAs and existing campaigns <£10k | Implementation | NO _x /PM reduction not estimated but communications campaigns can increase awareness of air quality issues | <p>Annual promotion undertaken</p> <p>Reduction in solid fuel burning / change in domestic heating</p> | <p>Promotion undertaken via CYC media channels Autumn/Winter 2024</p> <p>Compliance checks across solid fuel</p> | Promotion of 'Burn Better' campaign will help householders choose cleaner fuels and ensure they are aware of best practice |

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| | | | | | | | Particulate awareness and reduction campaign was funded through DEFRA AQ Grant | | Fuel for Thought campaign £10k - £50k | | and drive behavioural change | patterns, awareness of correct maintenance and efficient use of appliances and fuel certification schemes | distribution outlets were progressed throughout 2023/2024 to ensure that all solid fuels being sold were certified as 'Ready to Burn' DEFRA AQ Grant obtained for campaign work in relation to domestic solid fuel burning and links to air pollution and health. CYC's <u>Fuel for Thought</u> campaign was launched in November 2023 and was actively promoted throughout the Winter period. This campaign also raised awareness of smoke control area requirements. | in terms of maintenance of solid fuel burning appliances. |
| 10a | Continue to promote sustainable travel in York | Promoting Travel Alternatives | Intensive active travel campaign & infrastructure Promotion of cycling Promotion of walking School Travel Plans Workplace Travel Planning | 2024 | Ongoing (funding dependent) | CYC Sustainable Transport CYC Marketing and Communications Schools Local businesses Sustrans | CYC DfT | Partially funded | £100k - £500k (annually) for engagement with businesses, schools and the general community | Implementation | Hard to precisely quantify but target to increase modal shift away from private car to walking / cycling and public transport use AQAP4 section 3.5 estimates that reducing car usage by 20% (in line with CYC's 2030 Transport Strategy target) would result in around 12% reduction in overall NO _x emissions (for the area modelled). This would be over and above any improvements delivered through vehicle emission technology. | Various KPIs reported as part of Local Transport Plan, such as: Cycle counts / cycle training delivered School travel plans delivered Businesses adopting sustainable travel modes Increase in bus patronage Increase in walking / cycling | Since 2021/22 CYC's I-Travel programme has delivered: E-cycle switch scheme E-cargo bike scheme. Supported Friends of St Nicholas Fields (St Nicks) switch to using E-Cargo bikes Delivery of active travel campaign 'Better Points' scheme 'Bikeability' training to all Primary and Secondary state schools Urban Cycle Skills training for adults and families York Walking Festival Production of cycle route videos and audio walking guides School Travel Planning Development of a Local Cycling and Walking Infrastructure Plan (LCWIP) | Existing I-Travel programme subject to ongoing funding Continued work with schools to promote sustainable travel choices, minimise idling events, deliver cycle training, produce school travel plans and facilitate events to promote Walk to School week / Clean Air Day etc Continued work with businesses to embed sustainable travel modes into current business models and encourage uptake Also see measure 10c for updates on CYC's LCWIP |
| 10b | Delivery of Bus Service Improvement Plan (BSIP) | Transport Planning and Infrastructure | Bus route improvements Public transport improvements – interchanges, stations and services | 2024 | 2025 | CYC Sustainable Transport Bus companies Infrastructure providers | DfT | Funded | >£10m | Implementation | Bus emissions (post CAZ implementation) generally up to 10% of road traffic emissions on majority of network, but up to 25% in some areas of AQMA | Various KPIs outlined in BSIP, examples include: Passenger trips per year Bus punctuality /excess wait time Service frequency | Award of £8.4m through DfT's ZEBRA fund in March 2022 to fund 44 electric buses, with an additional award of £1.8m to increase the scope to co-fund a further 9 buses Award of £17m in April 2022 to support | See <u>BSIP report</u> to Executive Member for Transport |

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| | | | | | | | | | | | | % Electric Bus BSIP Target of 20 million bus passenger trips a year by April 2025 (25% increase on the peak seen in 2017/18). | the development of key schemes and initiatives in line with York's Bus Service Improvement Plan, including wider electrification of the urban bus fleet, bus priority measures, improvements to stops, shelters and passenger information | |
| 10c | Delivery of other LTP infrastructure measures | Transport Planning and Infrastructure | Other | 2024 | Ongoing | CYC Infrastructure providers | Scheme dependent | Scheme dependent | Scheme dependent | Implementation | Scheme specific York Outer Ring Road Air Quality Impact Assessment demonstrated a possible reduction in vehicle traffic (and air pollution emissions) in some areas of the city centre AQMA. | Scheme specific | <p>Local Transport Strategy <u>Implementation Plan</u> published November 2024. The plan provides an approach to city-wide transformation that will reduce air pollution and enable more physical and social activity through promotion and facilitation of active and sustainable modes of transport. The Implementation Plan will next be refreshed in Spring 2026.</p> <p>The Local Cycling and Walking Infrastructure Plan (LCWIP) specifies priority networks for walking, wheeling and cycling. These will form the basis for future investment in the active travel network and will be reflected in the Movement and Place Plan, which will map out connected networks for all modes of travel. This is due to be complete by the end of 2025.</p> <p>Following CYC's planning committee on 19 March 2024, and referral to the Secretary of State, the YORR planning application has now been approved. Full details can be found on the <u>Planning Access Portal</u>, using the search reference 22/02020/FULM.</p> <p>Consideration of Gillygate specific measures in progress. A Gillygate working group was established in 2023 and progressed throughout 2024 to</p> | <u>Scoping report for CYC LCWIP</u> |

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| | | | | | | | | | | | | | consider specific air quality improvement measures on Gillygate to address remaining exceedances of health-based standards. CYC officers will continue to work with residents of Gillygate and neighbouring streets as part of this group to explore other options to improve air quality further in the local area. Traffic Signal Trial on Gillygate approved by <u>Executive Member for Transport</u> in December 2024 CYC plan to progress a study looking at options for altering traffic movements on the western side of York's Inner Ring Road – focussing on the quadrant bounded by Gillygate, Bootham, Wigginton Road, Clarence Street and Gillygate, with a focus on addressing poor air quality in this area. This is likely to form part of the Movement and Place Plan unless it can be funded separately. | |
| 11a | Regulation and control of industrial emissions | Environmental Permits | Other | 2024 | Ongoing | CYC Public Protection | CYC | Funded | £10k - £50k | Implementation | NO _x / PM emission reduction not estimated but will prevent further deterioration in air pollution via regulation and control of existing processes | Scheduled CYC inspections completed per annum | Annual inspection programme ongoing | Scheduled inspections undertaken by CYC Public Protection staff. Work programme subject to maintaining existing staff resource |
| 11b | Regulation and control of domestic emissions | Promoting Low Emission Plant | Other Policy | 2024 | Ongoing | CYC Public Protection | CYC | Funded | £10-£50k | Implementation | NO _x / PM emission reduction not estimated | Review smoke control area boundaries and implementation of new legislation, including enforcement methods Reduction in complaints of smoke nuisance | Compliance checks across key solid fuel distribution outlets have been undertaken as part of other routine CYC operations to ensure that all solid fuels being sold were certified as 'Ready to Burn' in line with the Air Quality (Domestic Solid Fuels Standards) (England) Regulations 2020. Adopted a new enforcement policy for smoke emissions in CYC's Smoke Control Area (SCA) in November 2024. See | Work programme subject to maintaining staff resource CYC continues to investigate sales of non-authorised solid fuels and complaints of non-compliance. |

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| | | | | | | | | | | | | | <p><u>Decision Session – Executive Member for Environment and Climate Emergency 19th November 2024</u></p> <p>Consultation on revised SCA boundary planned for 2025</p> | |
| 11c | Provision / promotion of energy advice services and upgrade grants to domestic and business sectors | Promoting Low Emission Plant | Other Policy | 2024 | Ongoing | CYC Carbon Reduction | External grant funding | Funded | Scheme dependent | Implementation | <p>Home upgrade energy efficiency grants and advice services to residents and businesses will complement wider emission reduction measures of AQAP4.</p> <p>Across York, domestic buildings are the largest sources of greenhouse gas emissions at 31.9%.</p> | Grants awarded / energy savings / carbon reduction | <p>Production of updated <u>Climate Change Action Plan</u> in November 2024, that sets out sets out the actions to be taken to reduce emissions and improve climate resilience in York. A full update for 2024 is provided the updated Action Plan.</p> <p>Measures include:</p> <p>Creation of a <u>Retrofit One-Stop-Shop</u> for York is underway through the Innovate UK funded Net Zero Living project. The retrofit One-Stop-Shop will facilitate retrofitting homes with low-carbon measures, improve the householder experience and contribute to better energy efficiency standards across the city.</p> <p>Rollout of <u>Home Upgrade Grant (HUG2)</u> that provide insulation for low-income households to reduce heating bills and carbon emissions</p> <p>Decarbonisation plans for 21 schools and 5 leisure centres, identifying opportunities to reduce energy consumption, providing both financial and carbon savings.</p> <p><u>Local Energy Advice Demonstrator (LEAD) Home Energy Advice Scheme</u> for Conservation Area and Listed Property Owners</p> | <p>CYC gas consumption will be reduced through a range of initiatives including building efficiency improvements, transitioning to electrical heating and encouraging staff to take steps to reduce energy usage when working from home.</p> <p>CYC secured £175,980 grant funding from the Government's Low Carbon Skills Fund to create decarbonisation plans for 21 schools and 5 leisure centres in the City, identifying opportunities to reduce energy consumption, providing both financial and carbon savings.</p> <p>Building fabric upgrades (energy efficiency) and low carbon heating technology upgrades will contribute to improved local air quality and carbon reduction targets</p> |
| 12a | Maintain CYC's air quality monitoring network and respond to | - | - | 2024 | Ongoing | CYC Public Protection Academic Institutions (equipment trials) | CYC | Funded (routine operation) | £10-£50k per annum | Implementation | No direct air quality impact but used to monitor impact of AQAP measures and complementary | Average and/or maximum concentrations of NO ₂ , PM ₁₀ and PM _{2.5} across key | Established monitoring network including 9 real-time monitoring stations and 233 passive NO ₂ | Full details of CYC's up to date monitoring strategy and any changes are provided annually in CYC's |

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| | changing monitoring priorities | | | | | | | of existing equipment) Future upgrades subject to additional funding | | | CYC strategies affecting traffic and local development | areas in the AQMA / the wider area of York | diffusion tubes across CYC area Communications upgrades (4G) at two of CYC's continuous monitoring sites completed in 2024 to facilitate real-time data availability Contracts negotiated for ongoing data management, audit and service for air quality sites for period 2025-2027 | <u>Annual Air Quality Status Reports</u> New and upgraded monitoring equipment subject to internal / external funding and national standards |
| 12b | Ensure AQ data is disseminated to the public and shared with local leads for air quality, public health and transport | Public Information | Via the Internet Other | 2024 | Ongoing | CYC Public Protection | CYC | Funded | £10-£50k per annum | Implementation | N/A | Publication of annual air quality summary / ASR Briefings to local leads for Air Quality Real-time air quality data publication on online portal | AQ data currently disseminated via <u>Air Quality England</u> website and CYC Annual Status Reports hosted on <u>council website</u> Diffusion tube data hosted on CYC's <u>YorkView</u> GIS platform Annual Air Quality Report to CYC's <u>Executive in June 2024</u> Successful DEFRA AQ Grant bid for air quality alert / forecasting service that was launched in July 2024 Presentation on York's air quality initiatives to <u>Association of the Directors of Public Health Yorkshire and the Humber Sector-led improvement conference</u> on 8th November 2024 | Costs relate to annual staff costs. Additional mechanisms to disseminate data subject to additional funding. |

2.3 PM_{2.5} – Local Authority Approach to Reducing Emissions and/or Concentrations

As detailed in Policy Guidance LAQM.PG22 (Chapter 8) and the Air Quality Strategy¹, local authorities are expected to work towards reducing emissions and/or concentrations of fine particulate matter (PM_{2.5}). There is clear evidence that PM_{2.5} (particulate matter smaller 2.5 micrometres) has a significant impact on human health, including premature mortality, allergic reactions, and cardiovascular diseases.

The [Public Health Outcomes Framework](#) includes an indicator relating to the fraction of mortality attributable to particulate pollution. This indicator enables Directors of Public Health to prioritise action on air quality in their local area to help reduce the health burden from air pollution. Indicator D01 'Fraction of mortality attributable to particulate air pollution' is defined as the fraction of annual all-cause adult mortality attributable to particulate air pollution (measured as fine particulate matter, PM_{2.5}), expressed as the percentage of annual deaths from all causes in those aged 30+.

It is estimated that long-term exposure to air pollution (specifically, PM_{2.5}) was a contributory factor to the cause of death in 4.4% of deaths in York in 2023 (latest data available at the time of writing). This figure is less than the figure reported for the wider Yorkshire and Humber region in 2023 (5.1%) and less than the average figure reported for England in 2023 (5.2%).

It is widely accepted that fine particulate matter has a significant impact on both morbidity and mortality and diesel emissions have been classified as carcinogenic by the International Agency for Research on Cancer (part of the World Health Organisation). There is particular concern about the 'black carbon' fraction of particulate matter due to its health impacts, and its strong ability to absorb light energy and increase global warming. Black carbon emissions in urban environments arise predominantly from diesel transport, but are also a product of biomass combustion, used increasingly for energy production and space heating.

Emissions of oxides of nitrogen (NO_x) and man-made particulate must be reduced to meet the health based national air quality objectives in York and improve public health.

¹ Defra. Air Quality Strategy – Framework for Local Authority Delivery, August 2023

To date CYC has produced two trip reduction / modal shift based Air Quality Action Plans (AQAPs) and in 2015 adopted a third Action Plan (AQAP3) focussing on reducing vehicle tailpipe emissions from the remaining vehicle fleet through the use of low emission technologies. In 2024 CYC consulted on an updated Action Plan (AQAP4) that outlines the action CYC will take to further improve air quality in York over the next 5 years to go beyond health-based National Air Quality Objectives in all areas and work towards meeting World Health Organisation (WHO) Air Quality Guidelines. AQAP4 aims to reduce concentrations of air pollutants and exposure to air pollution, thereby improving the health and quality of life of residents and visitors to York. AQAP4 recognises that there are no 'safe' limits for particulate emissions, particularly PM_{2.5}. The maximum concentration of PM_{2.5} monitored in York in 2024 was 9.0µg/m³ at the Gillygate site.

CYC is demonstrating a commitment to addressing PM_{2.5} through measures in its current (new) Air Quality Action Plan and wider associated strategies. Some specific items related directly to reducing fine particulate emissions (and indeed related to reducing exposure to such emissions) are described below:

- **Exposure Reduction through the Planning Process [See AQAP4 measures 7a and 7b]**

Air quality staff routinely comment on planning applications to ensure that new developments are designed in a way which minimises exposure to air pollution and further emission growth. CYC's Low Emission Planning approach requires developers to calculate the damage costs of the additional development emissions and to mitigate these using a range of sustainable transport and low emission vehicle measures. Such measures must be considered reasonable and proportionate, relative to the damage costs associated with the development. Pre-planning advice is often provided on locations for key exposure sites (e.g. housing, schools, sports facilities, medical facilities etc.) and the use of biomass heating systems is generally discouraged in urban areas and near sensitive receptors.

- **Policy Led Exposure Reduction [Links to various AQAP4 measures]**

CYC's Environmental Protection team work alongside other council departments and input into key council policies that can impact on air quality, exposure reduction and health. Examples of previous joint policies include the Local Transport Plan / Strategy, Local Plan, Climate Change Strategy, Low Emission Strategy, Air Quality Action Plan(s) and the Health and Wellbeing Strategy. In 2019, CYC announced a Climate Emergency and have since set an ambition for CYC to reduce its carbon emissions to

net zero by 2030. CYC recognise the threat of climate change at both a global and local scale, and are committed to delivering bold, local climate action to deliver economic and social benefits, such as new green jobs, economic savings, market opportunities and much improved well-being for York residents. Air quality improvement strategies in York complement the wider climate change/carbon reduction agenda and the two areas are well aligned to recognise synergies and prevent conflict.

- **Information Led Exposure Reduction [See AQAP4 measures 3a, 3b, 9a, 9b, 9c, 11c, 12b]**

Acting as part of the Low Emission Partnership (alongside Bradford Metropolitan District Council and Lancaster City Council), CYC previously obtained DEFRA AQ Grant funding to develop a new [Air Quality Knowledge Hub](#). Focused on information exchange between local authority professionals, the Hub features a range of content areas related to air quality improvement measures that local authorities can adopt, as well as more specific practitioner advice notes that focus on various aspects of local air quality management, planning, monitoring and enforcement. The Hub, now adopted by DEFRA as a national resource, also includes a growing library of relevant case studies and a forum to facilitate discussion and information exchange. Since taking over management of the Hub, DEFRA have also now added a dedicated resource area for hosting communication materials arising from Air Quality Grant funded Projects and a new 'Collaboration Map', designed to make it easier for local authorities to identify and contact other authorities who are implementing similar air quality measures.

CYC undertakes promotional work in relation to the impact of vehicle idling (especially as part of Clean Air Day) focussed on raising awareness of the links between idling emissions, air quality and health impacts.

CYC was awarded DEFRA Air Quality Grant funding to improve public awareness of domestic solid fuel burning practices, particulate emissions and associated health impacts. We undertook research via a online survey and hosted a number of focus groups with the local community to inform the creative route for the '[Fuel for Thought](#)' campaign, which was initially launched in November 2023 and will be used for ongoing seasonal campaign work around solid fuel burning. A full evaluation of this campaign was provided to DEFRA in September 2024 and campaign materials have most recently been used to support national Clean Air Night in January 2025.

CYC was awarded DEFRA funding to develop an online air pollution forecasting and notification service to allow residents and visitors to York to access information that

allows them to minimise their own exposure when pollution episodes are forecast. The [York Air Alert](#) service is of particular benefit to anyone who suffers from health conditions exacerbated by poor air quality. The service, launched in July 2024, provides a 3-day forecast of air pollution with 8 zones of York. The service is free to subscribe to and provides notifications via email, text and voicemail to users.

In addition, CYC provides information locally about air quality via dedicated air quality webpages and social media, including information about air quality and health, low emission vehicles and charging infrastructure and air quality improvement policies and measures. CYC also provides information about current air quality levels across the city via the [Air Quality England](#) portal, which includes a daily Air Quality Index for the city.

- **Low Emission Vehicle Upgrades including buses, taxis and CYC fleet [See AQAP4 measures 2a, 2b, 4a, 4b, 5a, 5b, 10b]**

Following the introduction of the UK's first and only 'voluntary' Clean Air Zone (CAZ) for buses in 2020/21, CYC has worked in partnership with bus operators to introduce further zero emission electric buses to the York fleet, significantly reducing carbon, NO_x and particulate emissions across the city. Our work bringing Government funding to the city has enabled national bus company First Bus to set up one of its first net zero emission bus operations in the city. The York depot is one of the first outside London to be fully electric, and the first in Yorkshire, and £10.2m funding of the £23m project was secured by CYC from the Department for Transport ZEBRA scheme. The depot has seen emissions reduce by 90% compared to 2020 with the total fleet of 86 all-electric buses saving around 5,000 tonnes of CO₂ a year. The current phase of CYC's bus electrification programme will involve nearly all of York's operators, which include small local companies as well as larger national operators and will cover less frequent services and those which are urban/rural in character.

York has previously pioneered a taxi grant scheme aimed at encouraging taxi drivers to move away from diesel/petrol to petrol hybrid and fully electric taxis. We also adopted a new Taxi Licensing Policy in October 2024 that required vehicles to meet stricter emission standards to help improve air quality across the city. Through the taxi incentive scheme and iterative changes to Taxi Licensing Policy over a number of years, the number of low emission (fully electric or electric hybrid) taxis in the York fleet has been increased to approximately 40% (figure correct as of end December 2024).

Traditional petrol hybrid, plug-in hybrid and electric cars produce significantly lower tailpipe emissions than diesel equivalents.

Following electrical infrastructure upgrades at the council's Hazel Court ECO depot site, we continued our phased EV fleet replacement programme for vehicles under 3.5t. At January 2025, 60% of CYC's operational van fleet were zero (tailpipe) emission capable vehicles, thereby reducing emissions associated with the council's operations.

- **Review scope of Clean Air Zone [AQAP4 measures 1c, 2c, 4c]**

The existing Clean Air Zone (CAZ) for buses in the city centre was launched on 31st January 2020. Buses making 5 or more entrances to the CAZ per day are now required to be low emission (Euro VI diesel or electric). Low / zero emission buses will reduce the amount of fine particulate (as well as NO_x) emitted in the city. Measures in AQAP4 commit to reviewing the scope of the existing CAZ to consider including freight and taxis and extending the CAZ for buses to York Central.

- **Encourage the uptake of low and zero emission vehicles [AQAP4 measures 6, 8]**

CYC has previously hosted low emission vehicle events for the public to showcase a variety of electric cars and bikes. CYC also manage an extensive public electric vehicle charging network, consisting of 'fast', 'rapid' and 'ultra-rapid' charge points, to facilitate the uptake of electric vehicles in the city. An updated 'Public EV Charging Strategy' is currently being developed and is due for publication by the end of 2025. CYC also currently offer a residents parking discount for owners of low emission vehicles.

- **Clean Air Act / Smoke Control Areas [AQAP4 measure 11b]**

Under the requirements of the Clean Air Act, certain areas of York have been designated Smoke Control Areas (SCAs), where emissions of smoke from chimneys of buildings are prohibited. CYC continue to enforce existing smoke control areas to reduce particulate emissions and nuisance. In 2024, we developed a new Enforcement Protocol for civil penalties for smoke emissions within Smoke Control Areas (under the Clean Air Act 1993, as amended by the Environment Act 2021). In 2024 we issued 17 warning letters following smoke complaints (but were not required to issue any financial penalties). CYC also undertakes seasonal promotion of the rules around SCAs and issued advice and guidance to residents on the use of appropriate fuels and maintenance of appliances in line with the Government's national 'Burn Better' campaign. This promotional work accompanies compliance checks across

retailers within CYC's area to ensure that all solid fuels being sold are certified as 'Ready to Burn' in line with the Air Quality (Domestic Solid Fuels Standards) (England) Regulations 2020. As mentioned above, CYC has also previously launched a DEFRA funded campaign specifically aimed at improving public awareness of domestic solid fuel burning practices, particulate emissions and associated health impacts.

- **Reducing freight emissions [AQAP4 measures 1a, 1b, 1c]**

CYC's Local Transport Strategy [Implementation Plan](#) outlines medium term commitments to create an environment where emissions, noise and road wear and tear from freight vehicles is as low as possible, with operators using electric or other low pollution vehicles. Various measures to tackle freight emissions are proposed as part of AQAP4.

Throughout 2024, CYC's Director of Public Health and colleagues in the Public Health team have been involved in the development of AQAP4 and delivery of air quality improvement measures. CYC also maintain good contact within the sustainability team at the York and Scarborough NHS Trust and have previously worked with them to promote sustainable travel and raise awareness of National Clean Air Day.

3 Air Quality Monitoring Data and Comparison with Air Quality Objectives and National Compliance

This section sets out the monitoring undertaken within 2024 by City of York Council (CYC) and how it compares with the relevant air quality objectives. In addition, monitoring results are presented for a five-year period between 2020 and 2024 to allow monitoring trends to be identified and discussed.

3.1 Summary of Monitoring Undertaken

3.1.1 Automatic Monitoring Sites

CYC undertook automatic (continuous) monitoring at 9 sites during 2024. Table A.1 in Appendix A shows the details of the automatic monitoring sites. NB. Local authorities do not have to report annually on the following pollutants: 1,3 butadiene, benzene, carbon monoxide and lead, unless local circumstances indicate there is a problem. The [Air Quality England](#) page presents automatic monitoring results for CYC's area, with automatic monitoring results also available through the [UK-Air website](#).

Maps showing the location of the monitoring sites are provided in Appendix D. Further details on how the monitors are calibrated and how the data has been adjusted are included in Appendix C.

There have been no significant changes to CYC's overall automatic monitoring strategy (in terms of monitoring locations or pollutants) in the last 12 months.

3.1.2 Non-Automatic Monitoring Sites

CYC undertook non- automatic (i.e. passive) monitoring of NO₂ at 233 sites during 2024. There are 105 diffusion tubes within the existing AQMA and 127 tubes outside, with 1 blank tube. Table A.2 in Appendix A presents the details of the non-automatic sites.

Maps showing the location of the monitoring sites are provided on [City of York Council's website](#) and in Appendix D. Further details on Quality Assurance/Quality Control (QA/QC) for the diffusion tubes, including bias adjustments and any other adjustments applied (e.g. annualisation and/or distance correction), are included in Appendix C.

3.2 Individual Pollutants

The air quality monitoring results presented in this section are, where relevant, adjusted for bias, annualisation (where the annual mean data capture is below 75% and greater than 25%), and distance correction. Further details on adjustments are provided in Appendix C.

3.2.1 Nitrogen Dioxide (NO₂)

Table A.3 and Table A.4 in Appendix A compare the ratified and adjusted monitored NO₂ annual mean concentrations for the past five years with the air quality objective of 40µg/m³. Note that the concentration data presented represents the concentration at the location of the monitoring site, following the application of bias adjustment and annualisation, as required (i.e. the values are exclusive of any consideration to fall-off with distance adjustment).

For diffusion tubes, the full 2024 dataset of monthly mean values is provided in Appendix B. Note that the concentration data presented in Table B.1 includes distance corrected values, only where relevant.

Table A.5 in Appendix A compares the ratified continuous monitored NO₂ hourly mean concentrations for the past five years with the air quality objective of 200µg/m³, not to be exceeded more than 18 times per year.

The highest concentration of NO₂ recorded at a location representative of long-term public exposure in 2024 was 32.4µg/m³ on Blossom Street, near the junction with Queen Street (diffusion tube reference C27). This contrasts with 2023, where maximum NO₂ concentrations of 43µg/m³ were monitored near the junction of Gillygate and Bootham.

Improvements in annual mean NO₂ monitored at roadside continuous monitoring sites were observed between 2023 and 2024 at Holgate Road (8% improvement), Nunnery Lane (8% improvement), Gillygate (22% improvement), Lawrence Street (2% improvement), Heworth Green (12% improvement) and Fulford Road (7% improvement).

Annual mean NO₂ concentrations monitored at the Fishergate roadside monitoring site increased by 6% between 2023 and 2024. Co-located diffusion tubes at the Fishergate site also showed an increase of around 3% between 2023 and 2024; this is thought to be due to construction vehicles and traffic management associated with a large-scale development immediately adjacent to the monitoring site.

Annual mean background concentrations of NO₂ monitored at Bootham Park Hospital (City of York Council's urban background continuous monitoring site) also improved by 3% between 2023 and 2024.

Concentrations of NO₂ monitored at the vast majority of locations in York throughout 2024 continue the general downward trend in NO₂ concentrations monitored in the city since 2012. Ongoing air quality monitoring across the city is considered fundamental to understanding the magnitude of any changes due to increased levels of walking and cycling, changes in public transport use, vehicle electrification and other ongoing air quality improvement initiatives as set out in the council's fourth Air Quality Action Plan (AQAP4).

With respect to the city centre AQMA, there were no monitoring locations that measured annual mean NO₂ concentrations of 40µg/m³ or above in 2024. This is the first year since the pandemic (2020) that all CYC monitoring sites have achieved compliance with health-based objectives.

Maximum annual mean concentrations of NO₂ monitored at relevant locations across the current AQMA were 31.1µg/m³ (Gillygate / Bootham), 28.5µg/m³ (George Hudson St / Rougier St), 32.4µg/m³ (Holgate / Blossom Street), 28.1µg/m³ (Lawrence St), 25.4µg/m³ (Fishergate / Paragon St), 24.8µg/m³ (Prices Lane/Nunnery Lane) and 27.2µg/m³ (Coppergate). Maximum concentrations of NO₂ decreased in all these areas between 2023 and 2024 and ranged from 3% lower around Prices Lane / Nunnery Lane to 27% lower around Gillygate / Bootham.

In line with DEFRA's LAQM guidance, before revoking an AQMA on the basis of measured pollutant concentrations, a local authority needs to be reasonably certain that any future exceedences of air quality objectives are unlikely. For this reason, it is expected that local authorities will need to consider measurements carried out over several years or more, national trends in emissions, as well as local factors that may affect the AQMA. Additionally, where NO₂ monitoring is undertaken using diffusion tubes, to allow for the uncertainty associated with the monitoring method, it is recommended that revocation of an AQMA should only be considered following three consecutive years of annual mean NO₂ concentrations being lower than 36µg/m³ (i.e. within 10% of the annual mean NO₂ objective). Whilst some areas of CYC's AQMA have now seen more than 3 consecutive years of maximum concentrations being lower than 36µg/m³ (see section 3.3.1) this is not the case for all areas of the AQMA, notably the areas around Holgate/Blossom Street, Gillygate/Bootham and Rougier Street / George Hudson Street. CYC will keep the AQMA

boundary under review, taking into account DEFRA's guidelines. It may be appropriate to revoke some localised areas of the city centre AQMA in the near future.

Concentrations of NO₂ monitored in the former Fulford Road AQMA in 2024 continue to be well below the annual mean objective of 40µg/m³. The highest recorded levels of NO₂ in this area were monitored on Fulford Main Street (Diffusion Tube C58) and were 23.9µg/m³. This supports the decision to revoke the Fulford Road AQMA, as discussed in CYC's previous Annual Status Reports and implemented in February 2020.

Concentrations of NO₂ monitored in the former Salisbury Terrace / Leeman Road AQMA in 2024 were also all well below the annual mean objective of 40µg/m³. The highest recorded levels of NO₂ in this area were monitored on Salisbury Terrace (Diffusion Tube 102) and were 20.9µg/m³. This confirms that the decision to revoke this AQMA in December 2017 was appropriate.

In December 2018, the boundary of the city centre AQMA was extended to include the full length of Coppergate and the buildings either side of the road, due to monitored concentrations of NO₂ above the annual mean objective for this pollutant. The highest annual mean concentrations of NO₂ monitored along Coppergate in 2024 was 27.2µg/m³ at site D56 (Three Tuns Pub, 12 Coppergate) which is below the annual mean objective for this pollutant. This area of the AQMA has now experienced concentrations of NO₂ below 36µg/m³ for 2 consecutive years (2023 and 2024) with maximum concentrations monitored in 2024 being 23% lower than 2023. This area of the city centre AQMA will be kept under review to establish longer term trends in pollution and to confirm that concentrations of NO₂ remain well within objective levels, prior to making any amendments to the AQMA boundary.

Revisions to the AQMA Order in December 2018 also removed the reference to breaches of the short-term hourly objective along George Hudson Street / Rougier Street / Bridge Street based on monitoring results in this area. The latest 2024 monitoring results for this area of the city indicate that this short-term objective is still being met (all annual mean concentrations were less than 60µg/m³ which, in line with DEFRA guidance, suggests that an exceedance of the 1-hour mean objective is unlikely).

3.2.2 Particulate Matter (PM₁₀)

Table A.6 in Appendix A: Monitoring Results compares the ratified and adjusted monitored PM₁₀ annual mean concentrations for the past five years with the air quality objective of 40µg/m³.

Table A.7 in Appendix A compares the ratified continuous monitored PM₁₀ daily mean concentrations for the past five years with the air quality objective of 50µg/m³, not to be exceeded more than 35 times per year.

CYC monitored particulate (PM₁₀) at 3 sites in 2024 (Bootham, Fishergate and Plantation Drive). National air quality objectives for PM₁₀ are currently met in York; this has been the case since monitoring of PM₁₀ was established in the city. The highest annual mean concentration of PM₁₀ monitored in York in 2024 was 17.8µg/m³ at the Plantation Drive monitoring site. Along with many areas of the UK, this concentration is above the World Health Organisation (WHO) guideline for this pollutant, which has been strengthened to 15µg/m³. Annual mean concentrations of PM₁₀ monitored in 2024 were above levels monitored in 2023 at all 3 CYC sites. Annual mean PM₁₀ increased at Plantation Drive (roadside), Fishergate (roadside) and Bootham (background) by 15%, 12% and 8% respectively. Based on PM₁₀ monitoring data over the last 5 years, there does not appear to be any clear trend in annual mean PM₁₀ concentrations.

In 2024 there were less than 35 exceedences of the daily mean PM₁₀ objective of 50µg/m³ at all monitoring sites. Exceedences of 50µg/m³ were recorded at the Fishergate site (on 2 days) and at the Plantation Drive site (on 1 day).

3.2.3 Particulate Matter (PM_{2.5})

Table A.8 in Appendix A presents the ratified and adjusted monitored PM_{2.5} annual mean concentrations for the past five years.

Although not explicitly required under the Local Air Quality Management regulations, where Local Authorities undertake PM_{2.5} monitoring they are encouraged to report it as part of the Annual Status Report. Fine-particulate, or PM_{2.5}, is the pollutant which has the biggest impact on public health and on which the Public Health Outcomes framework (PHOF) indicator is based.

CYC monitored PM_{2.5} at four locations in the city in 2024, namely Bootham (urban background site), Fishergate, Gillygate and Holgate Road (roadside sites). Monitoring of PM_{2.5} at Fishergate and Bootham is carried out as part of DEFRA's Automatic and Rural Monitoring Network (AURN). Monitoring at Gillygate and Holgate was established by CYC as a result of the growing concerns over the health impacts of PM_{2.5}.

National air quality objectives for PM_{2.5} are currently met in York. The highest annual mean level of PM_{2.5} monitored in York in 2024 was 9.0µg/m³ at Gillygate. This compares

with a maximum level of $8.0\mu\text{g}/\text{m}^3$ monitored in 2023, at Fishergate. All monitored concentrations in 2024 are within the current annual mean objective of $10\mu\text{g}/\text{m}^3$. As with most areas of the UK, monitored concentrations of $\text{PM}_{2.5}$ in York are above the WHO Guideline value of $5\mu\text{g}/\text{m}^3$ for this pollutant.

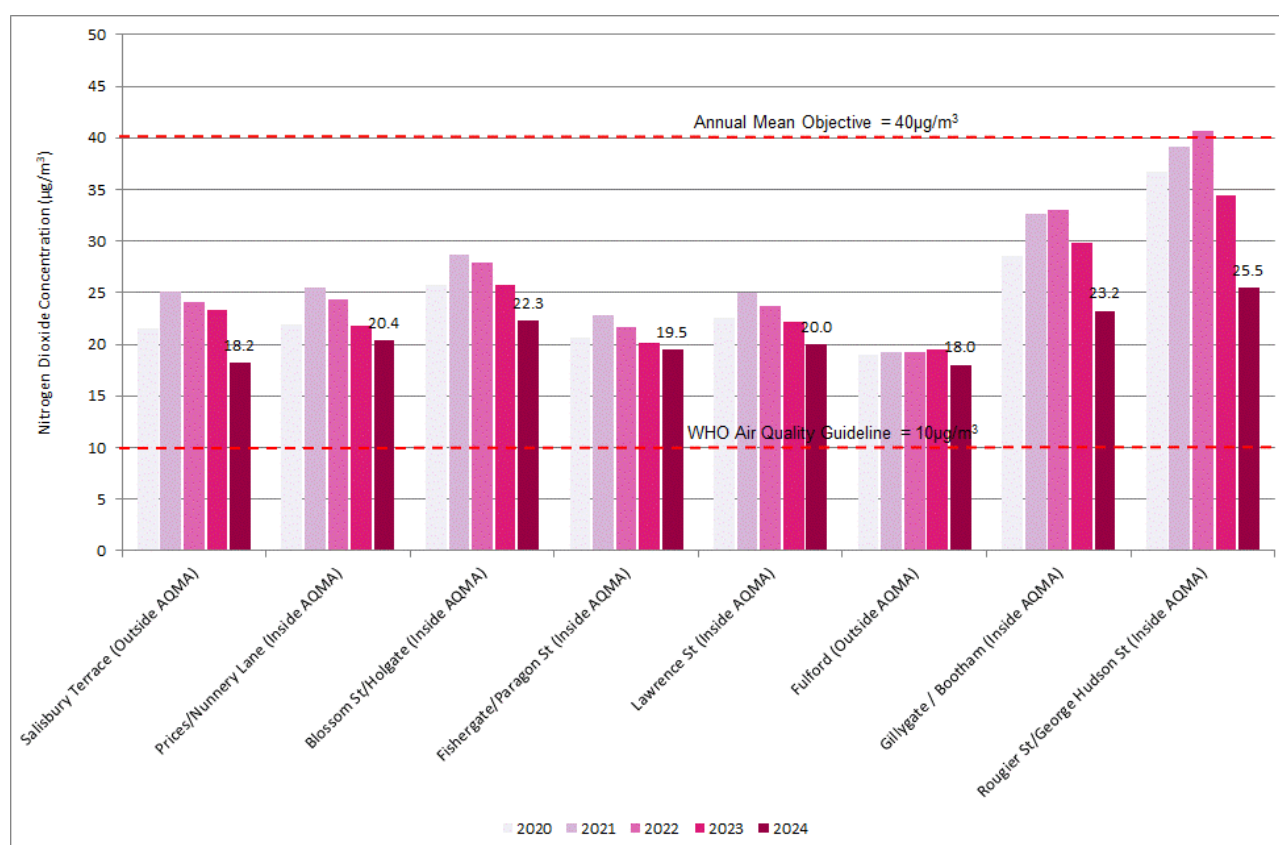
Between 2023 and 2024, annual mean concentrations of $\text{PM}_{2.5}$ decreased at Fishergate (7% improvement) but increased at all other sites (by 4%, 25%, and 8% at Bootham, Gillygate and Holgate respectively). Whilst there is a long-term downward trend in $\text{PM}_{2.5}$ in York (over the last 10+ years), concentrations over the last 5 years have been more variable, especially at roadside continuous monitoring sites.

3.3 Air Quality Indicators

3.3.1 Council Plan Air Quality Indicators

Three air quality indicators have been developed to look at trends in air quality across CYC's current AQMA and are as follows:

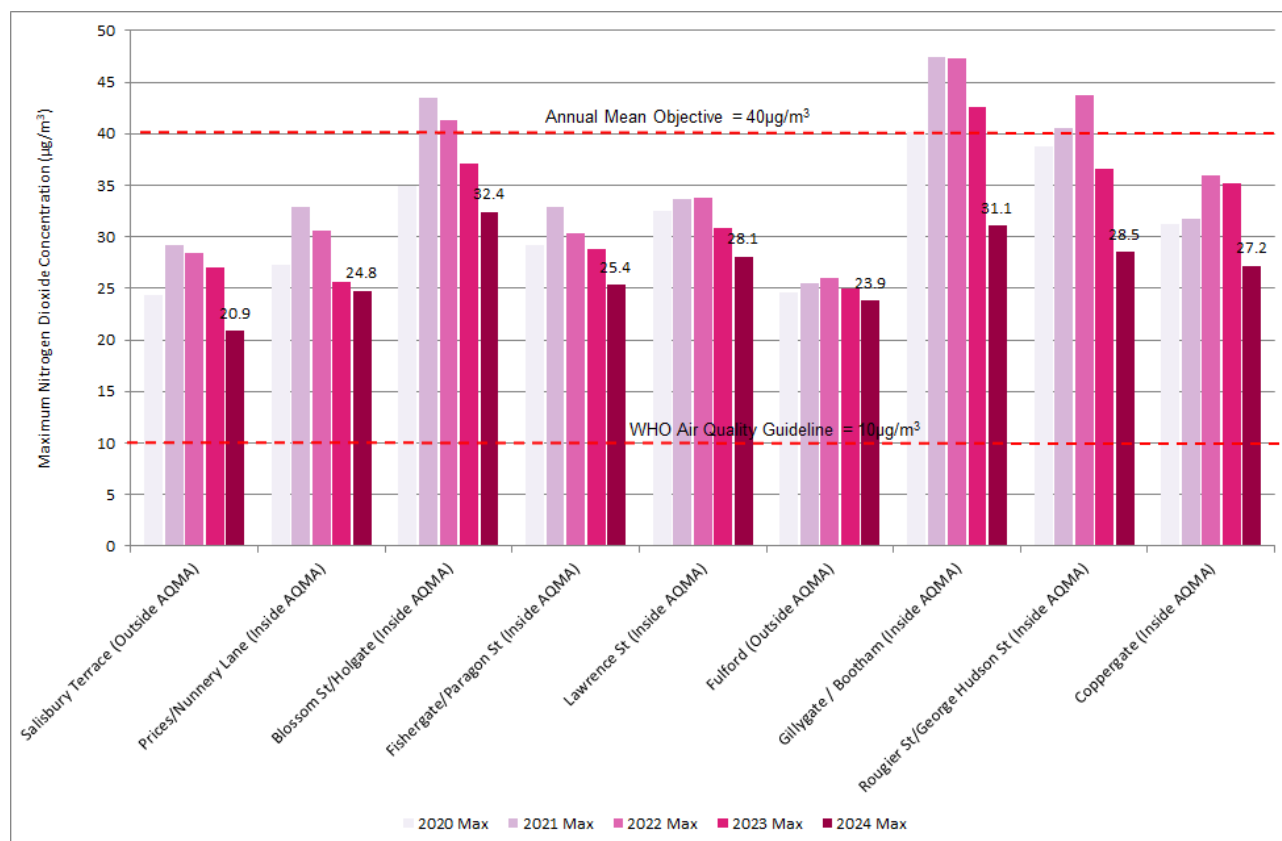
Indicator CAN027 – Average Annual Mean Nitrogen Dioxide Concentration in each area of technical breach. This indicator provides an average nitrogen dioxide concentration within areas of the AQMA where properties are included in the boundary and breaches of the annual mean objective have previously been monitored (historical AQMA areas such as Salisbury Terrace and Fulford Road, are also shown for information). Monitoring results include bias corrected diffusion tube data and data from continuous monitors (if applicable). Trends for CAN027 between 2020 and 2024 are shown below:



Average concentrations of NO₂ monitored in 2024 were lower than 2023 in all areas. Indicator CAN027 continues to suggest a steady downward trend in NO₂ concentrations over the last 10+ years.

Indicator CAN028 - Maximum Nitrogen Dioxide Concentration (at relevant location) in each area of Technical Breach. This indicator provides a maximum recorded annual mean nitrogen dioxide concentration within areas of the AQMA where properties are included in the boundary and breaches of the annual mean objective have previously been

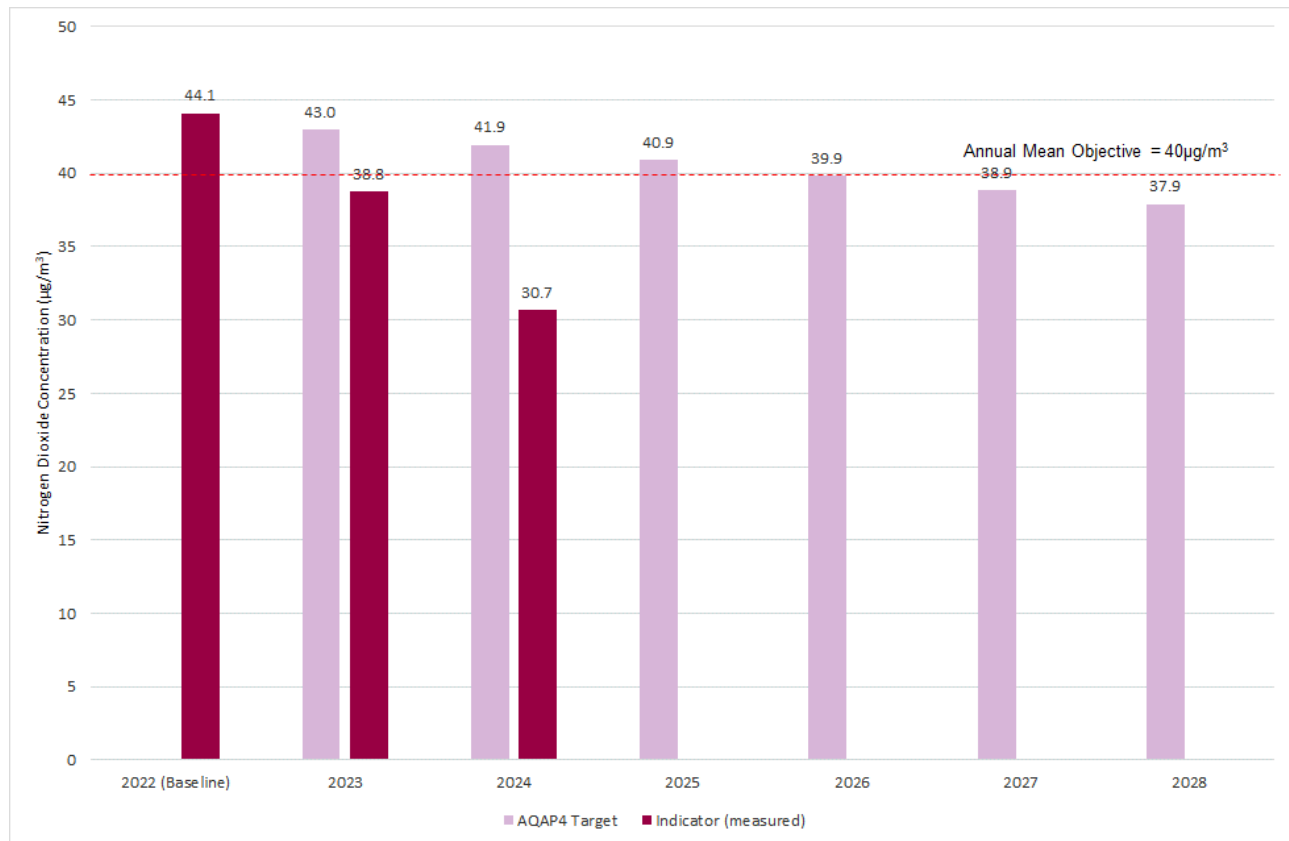
monitored (historical AQMA areas, such as Salisbury Terrace and Fulford Road, are also shown for information). This only considers monitoring at relevant locations and is therefore useful to look at the validity of existing AQMA boundaries year to year. Trends between 2020 and 2024 are shown below:



The maximum annual mean NO₂ concentration monitored at a relevant location in 2024 was 32.4µg/m³ (Diffusion tube C27 on Blossom Street, near the junction with Queen Street). Maximum concentrations of NO₂ across all areas of the AQMA in 2024 were below the annual mean NO₂ objective and decreased between 2023 and 2024. The greatest improvement was observed in the Gillygate area, where maximum concentrations of NO₂ improved by 27% between 2023 and 2024. Maximum concentrations of NO₂ monitored across all areas are the lowest recorded in 15 years of monitoring.

Indicator CAN038: Average of maximum annual mean nitrogen dioxide concentrations recorded across three areas of technical breach (at points of relevant public exposure). With the exception of 2023/2024 (and 2020 during the pandemic), CYC's air quality monitoring network has previously demonstrated sustained exceedances of the NO₂ objective of 40µg/m³ in 3 areas of the city, namely Gillygate/Lord Mayor's Walk, Blossom Street/Holgate Road, and Rougier Street / George Hudson Street. These are referred to as 'technical breach areas' and fall within CYC's AQMA. Whilst not all monitoring points within these areas are exceeding health-based standards, there has

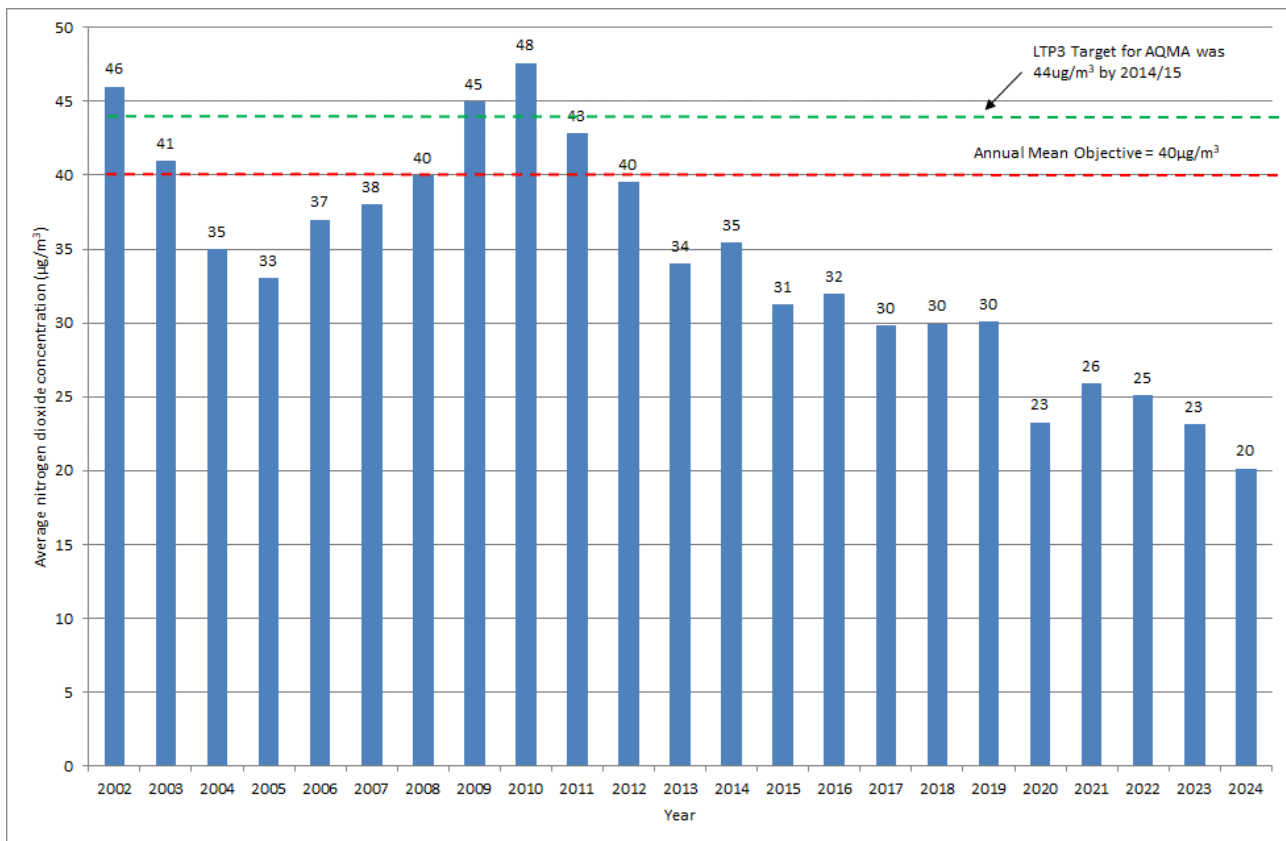
previously been at least one monitor at a point of relevant public exposure within each area that is above the annual mean objective of $40\mu\text{g}/\text{m}^3$. Indicator CAN038 considers an average of the maximum annual mean concentrations of NO_2 in these three areas (specific values for the 3 respective areas are shown in indicator CAN028 above).



As can be seen from the graph above, the AQAP4 target was met in 2024 and the indicator is well within the $40\mu\text{g}/\text{m}^3$ objective. Projections undertaken for AQAP4 suggested that it may take until 2026 for this indicator to fall below $40\mu\text{g}/\text{m}^3$. The rate of improvement observed in York between 2022 - 2024 has significantly exceeded that observed in earlier years from 2012 – 2022 (which was around 2.5% improvement a year over 10 years).

3.3.2 Local Transport Plan Air Quality Indicator

For the purpose of monitoring the impact of York's Local Transport Plan a local air quality indicator was established and has been reported over the last 20+ years. This indicator measures the mean of annual average results obtained from 36 diffusion tubes located within CYC's city centre AQMA. Trends in this indicator between 2002 and 2024 are shown below:



This indicator suggests that NO_2 concentrations across the city were in general decline between 2002 and 2005. This was followed by a steady increase in concentrations between 2006 and 2010. There has been an ongoing downward trend in NO_2 concentrations across the city centre AQMA over the last 14 years. The figure of $20\mu\text{g}/\text{m}^3$ recorded in 2024 is the lowest recorded value since the indicator was established in 2002 and was lower than that monitored in 2020 during the pandemic (a result of significantly lower traffic levels and associated emissions in the city as a result of the Covid-19 lockdowns). This reinforces trends seen with other council air quality indicators described above.

Appendix A: Monitoring Results

Table A.1 – Details of Automatic Monitoring Sites

| Site ID | Site Name | Site Type | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Pollutants Monitored | In AQMA? | Which AQMA? ⁽¹⁾ | Monitoring Technique | Distance to Relevant Exposure (m) ⁽²⁾ | Distance to kerb of nearest road (m) ⁽¹⁾ | Inlet Height (m) |
|---------|------------------|------------------|-------------------------|--------------------------|--|----------|----------------------------|-----------------------------|--|---|------------------|
| CM1 | Bootham | Urban Background | 460022 | 452777 | NO ₂ , PM ₁₀ , PM _{2.5} | No | N/A | Chemiluminescent, BAM | 60.0 | 49.6 | 3.0 |
| CM2 | Fishergate | Roadside | 460746 | 451038 | NO ₂ , PM ₁₀ , PM _{2.5} | Yes | AQMA No.5 | Chemiluminescent, BAM | 10.0 | 3.2 | 2.7 |
| CM3 | Holgate | Roadside | 459512 | 451282 | NO ₂ , PM _{2.5} | Yes | AQMA No.5 | Chemiluminescent, TEOM 1405 | 12.0 | 2.5 | 1.7 |
| CM4 | Nunnery Lane | Roadside | 460068 | 451199 | NO ₂ | Yes | AQMA No.5 | Chemiluminescent | 4.0 | 1.7 | 1.7 |
| CM5 | Gillygate | Roadside | 460147 | 452345 | NO ₂ , PM _{2.5} | Yes | AQMA No.5 | Chemiluminescent, TEOM 1405 | 3.0 | 2.1 | 2.5 |
| CM6 | Lawrence Street | Roadside | 461256 | 451340 | NO ₂ | Yes | AQMA No.5 | Chemiluminescent | 5.0 | 3.2 | 1.7 |
| CM7 | Heworth Green | Roadside | 461126 | 452602 | NO ₂ | No | N/A | Chemiluminescent | 3.0 | 1.2 | 1.5 |
| CM8 | Plantation Drive | Roadside | 457428 | 452620 | PM ₁₀ | No | N/A | TEOM | 17.0 | 1.0 | 1.7 |
| CM9 | Fulford Road | Roadside | 460937 | 449464 | NO ₂ | No | N/A | Chemiluminescent | 19.0 | 5.0 | 1.7 |

Notes:

(1) N/A if not applicable

(2) 0m if the monitoring site is at a location of exposure (e.g. installed on the façade of a residential property).

Table A.2 – Details of Non-Automatic Monitoring Sites

| Diffusion Tube ID | Site Name | Site Type | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Pollutants Monitored | In AQMA? Which AQMA? | Distance to Relevant Exposure (m) ⁽¹⁾ | Distance to kerb of nearest road (m) ⁽²⁾ | Tube Co-located with a Continuous Analyser? | Tube Height (m) |
|-------------------|---|------------------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| 5 | Lamp post 15 Forge Close, Jockey Lane | Roadside | 462040 | 454883 | NO ₂ | NO | 16.9 | 1.9 | N | ~2.75 |
| 6 | Lamp post top of Nunnery Lane Car Park | Roadside | 459777 | 451406 | NO ₂ | YES | 7.7 | 2.8 | N | ~2.75 |
| 7 | Gillygate opposite Portland Street | Roadside | 460217 | 452421 | NO ₂ | YES | 2.3 | 0.3 | N | ~2.75 |
| 8 | Portland Street - triplicate | Urban Background | 460163 | 452468 | NO ₂ | NO | 3.7 | 1.8 | N | ~2.75 |
| 9 | Portland Street - triplicate | Urban Background | 460163 | 452468 | NO ₂ | NO | 3.7 | 1.8 | N | ~2.75 |
| 11 | Holly Bank | Urban Background | 458846 | 450946 | NO ₂ | NO | 7.7 | 0.7 | N | ~2.75 |
| 13 | Papillion hotel, Gillygate | Roadside | 460176 | 452377 | NO ₂ | YES | 0.1 | 1.5 | N | ~2.75 |
| 14 | Gillygate Surgery | Roadside | 460167 | 452347 | NO ₂ | YES | 0.2 | 2.3 | N | ~2.75 |
| 15 | Foss Islands Rd | Roadside | 461105 | 451458 | NO ₂ | YES | 1.9 | 1.9 | N | ~2.75 |
| 16 | Prices Lane | Roadside | 460160 | 451152 | NO ₂ | YES | 2.5 | 1.2 | N | ~2.75 |
| 17 | Drainpipe of house 18 Queen St | Roadside | 459646 | 451500 | NO ₂ | YES | 0.2 | 1.3 | N | ~2.75 |
| 18 | Lamp post 4 Haxby Road | Roadside | 460457 | 452903 | NO ₂ | YES | 3.3 | 1.9 | N | ~2.75 |
| 25 | Heworth Road - Lamp post 6 | Roadside | 461721 | 452709 | NO ₂ | NO | 7.2 | 1.4 | N | ~2.75 |
| 26 | Haleys Terrace (previously Longwood Road) | Roadside | 460829 | 453524 | NO ₂ | NO | 8.5 | 0.4 | N | ~2.75 |
| 33 | Haxby Road (nr Whitecross Rd) | Roadside | 460598 | 453227 | NO ₂ | NO | 14.5 | 1.7 | N | ~2.75 |
| 35 | Carr Lane | Roadside | 457603 | 451492 | NO ₂ | NO | 6.2 | 2.9 | N | ~2.75 |
| 37 | Jarvis Abbey Park | Roadside | 459522 | 451187 | NO ₂ | YES | 21.6 | 2.7 | N | ~2.75 |
| 44 | Lamp post 8 Monkgate Cloisters | Roadside | 460679 | 452326 | NO ₂ | YES | 2 | 1.6 | N | ~2.75 |

| Diffusion Tube ID | Site Name | Site Type | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Pollutants Monitored | In AQMA? Which AQMA? | Distance to Relevant Exposure (m) ⁽¹⁾ | Distance to kerb of nearest road (m) ⁽²⁾ | Tube Co-located with a Continuous Analyser? | Tube Height (m) |
|-------------------|---|------------------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| 45 | Clarence St | Roadside | 460319 | 452754 | NO ₂ | YES | 3.6 | 2 | N | ~2.75 |
| 47 | Strensall Road | Roadside | 462009 | 456996 | NO ₂ | NO | 19.2 | 0.8 | N | ~2.75 |
| 50 | BLANK | N/A | N/A | N/A | NO ₂ | N/A | N | N/A | N | N/A |
| 60 | First Lamp post on Navigation Road | Roadside | 461017 | 451781 | NO ₂ | YES | 13 | 0.2 | N | ~2.75 |
| 78 | Gillygate Monitoring Station - triplicate | Roadside | 460149 | 452342 | NO ₂ | YES | 3.4 | 2.3 | Y | ~2.75 |
| 79 | Gillygate Monitoring Station - triplicate | Roadside | 460149 | 452342 | NO ₂ | YES | 3.4 | 2.3 | Y | ~2.75 |
| 80 | Gillygate Monitoring Station - triplicate | Roadside | 460149 | 452342 | NO ₂ | YES | 3.4 | 2.3 | Y | ~2.75 |
| 83 | Drainpipe 6 Stockton Lane - nr Heworth Rd roundabout | Urban Background | 461597 | 452830 | NO ₂ | NO | 0.1 | 8.8 | N | ~2.75 |
| 88 | Lamp post 1 Yew Tree Mews Osbaldwick Village | Urban Background | 463354 | 451972 | NO ₂ | NO | 4.9 | 0.6 | N | ~2.75 |
| 90 | Lamp post Opposite Montague Street on Cambleshon Road | Roadside | 459997 | 450109 | NO ₂ | NO | 19.8 | 1 | N | ~2.75 |
| 96 | Heslington Lane | Roadside | 460978 | 449452 | NO ₂ | NO | 1.5 | 2.5 | N | ~2.75 |
| 100 | House Near A59 Ringroad Roundabout | Roadside | 456228 | 453312 | NO ₂ | NO | 0.2 | 15 | N | ~2.75 |
| 101 | Wiggington Road near the ring road roundabout | Roadside | 459746 | 455897 | NO ₂ | NO | 15 | 0.5 | N | ~2.75 |
| 102 | Signpost between houses 252 & 254 on Salisbury Terrace - triplicate | Roadside | 458703 | 452429 | NO ₂ | NO | 0.1 | 1.4 | N | ~2.75 |
| 103 | Signpost between houses 252 & 254 | Roadside | 458703 | 452429 | NO ₂ | NO | 0.1 | 1.4 | N | ~2.75 |

| Diffusion Tube ID | Site Name | Site Type | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Pollutants Monitored | In AQMA? Which AQMA? | Distance to Relevant Exposure (m) ⁽¹⁾ | Distance to kerb of nearest road (m) ⁽²⁾ | Tube Co-located with a Continuous Analyser? | Tube Height (m) |
|-------------------|---|-----------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| | on Salisbury Terrace - triplicate | | | | | | | | | |
| 104 | Signpost between houses 252 & 254 on Salisbury Terrace - triplicate | Roadside | 458703 | 452429 | NO ₂ | NO | 0.1 | 1.4 | N | ~2.75 |
| 107 | Inbetween corner shop & betting office | Roadside | 458779 | 452387 | NO ₂ | NO | 3 | 3.8 | N | ~2.75 |
| 108 | On signpost opposite side of road from 200 Salisbury Terrace | Roadside | 458814 | 452373 | NO ₂ | NO | 0.2 | 1.5 | N | ~2.75 |
| 109 | Signpost outside 16 Rougier Street | Roadside | 459924 | 451833 | NO ₂ | YES | 0.2 | 2.5 | N | ~2.75 |
| 110 | Signpost inbetween Club Salvation & 31 George Hudson Street | Roadside | 459985 | 451727 | NO ₂ | YES | 0.2 | 2.3 | N | ~2.75 |
| 111 | Lamp post at side of Cedar Court opposite entrance to Multi-storey Car Park on Tanner Row | Roadside | 459917 | 451728 | NO ₂ | NO | 26 | 2.6 | N | ~2.75 |
| 112 | Lamp post outside St Gregorys Mews, opposite Council HQ Toft Green | Roadside | 459873 | 451684 | NO ₂ | NO | 1 | 2.3 | N | ~2.75 |
| 114 | Bus Stop outside Society bar/cafe Rougier Street | Roadside | 459981 | 451778 | NO ₂ | YES | 3.5 | 2.7 | N | ~2.75 |
| 116 | 111 Poppleton Road, drainpipe | Roadside | 458212 | 452037 | NO ₂ | NO | 0.1 | 5.3 | N | ~2.75 |

| Diffusion Tube ID | Site Name | Site Type | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Pollutants Monitored | In AQMA? Which AQMA? | Distance to Relevant Exposure (m) ⁽¹⁾ | Distance to kerb of nearest road (m) ⁽²⁾ | Tube Co-located with a Continuous Analyser? | Tube Height (m) |
|-------------------|---|------------------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| 125 | Osbalwick Derwenthorpe | Roadside | 463194 | 451967 | NO ₂ | NO | 20 | 1.6 | N | ~2.75 |
| 126 | New Tube (Osbalwick Parish Council) nr Bridge | Roadside | 463482 | 451896 | NO ₂ | NO | 17.5 | 0.9 | N | ~2.75 |
| 127 | Lamp post to left of 102 Layerthorpe (flats) | Roadside | 461108 | 452313 | NO ₂ | NO | 3.3 | 1.8 | N | ~2.75 |
| 128 | Drainpipe between 7-9 Livingstone Street | Roadside | 458686 | 452369 | NO ₂ | NO | 0.1 | 1.6 | N | ~2.75 |
| 129 | Drainpipe to front of 88 Station Road | Roadside | 455968 | 453397 | NO ₂ | NO | 0.1 | 14.5 | N | ~2.75 |
| 2a | Fishergate Monitoring station - triplicate | Roadside | 460746 | 451034 | NO ₂ | YES | 16.3 | 3.5 | Y | ~2.75 |
| 2b | Fishergate Monitoring station - triplicate | Roadside | 460746 | 451034 | NO ₂ | YES | 16.3 | 3.5 | Y | ~2.75 |
| 2c | Fishergate Monitoring station - triplicate | Roadside | 460746 | 451034 | NO ₂ | YES | 16.3 | 3.5 | Y | ~2.75 |
| 3a | Bootham Monitoring Station - triplicate | Urban Background | 460024 | 452767 | NO ₂ | NO | 39 | 49.6 | Y | ~2.75 |
| 3b | Bootham Monitoring Station - triplicate | Urban Background | 460024 | 452767 | NO ₂ | NO | 39 | 49.6 | Y | ~2.75 |
| 3c | Bootham Monitoring Station - triplicate | Urban Background | 460024 | 452767 | NO ₂ | NO | 39 | 49.6 | Y | ~2.75 |
| 95a | Fulford Monitoring Station - triplicate | Roadside | 460938 | 449465 | NO ₂ | NO | 19 | 6.5 | Y | ~2.75 |
| 95b | Fulford Monitoring Station - triplicate | Roadside | 460938 | 449465 | NO ₂ | NO | 19 | 6.5 | Y | ~2.75 |
| 95c | Fulford Monitoring Station - triplicate | Roadside | 460938 | 449465 | NO ₂ | NO | 19 | 6.5 | Y | ~2.75 |

| Diffusion Tube ID | Site Name | Site Type | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Pollutants Monitored | In AQMA? Which AQMA? | Distance to Relevant Exposure (m) ⁽¹⁾ | Distance to kerb of nearest road (m) ⁽²⁾ | Tube Co-located with a Continuous Analyser? | Tube Height (m) |
|-------------------|--|------------------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| 9a | Portland Street - triplicate | Urban Background | 460163 | 452468 | NO ₂ | NO | 3.7 | 1.8 | N | ~2.75 |
| A1 | Bootham traffic light outside dance shop | Roadside | 460088 | 452263 | NO ₂ | YES | 0.2 | 2.3 | N | ~2.75 |
| A11 | Traffic lights end of Water Lane | Roadside | 459341 | 453042 | NO ₂ | YES | 13.6 | 0.4 | N | ~2.75 |
| A12 | Lamp post 7 Clifton Green | Roadside | 459251 | 453008 | NO ₂ | YES | 12.9 | 2.2 | N | ~2.75 |
| A13 | Lamp post 1 Clifton Dale - triplicate | Urban Background | 459335 | 452931 | NO ₂ | NO | 2.7 | 1.6 | N | ~2.75 |
| A14 | Lamp post 1 Clifton Dale - triplicate | Urban Background | 459335 | 452931 | NO ₂ | NO | 2.7 | 1.6 | N | ~2.75 |
| A14a | Lamp post 1 Clifton Dale - triplicate | Urban Background | 459335 | 452931 | NO ₂ | NO | 2.7 | 1.6 | N | ~2.75 |
| A17 | Sailsbury Road | Roadside | 458578 | 452472 | NO ₂ | NO | 8.7 | 1.5 | N | ~2.75 |
| A19 | 17 Sailsbury Terrace - triplicate | Roadside | 458713 | 452414 | NO ₂ | NO | 0.2 | 1.3 | N | ~2.75 |
| A19a | 17 Sailsbury Terrace - triplicate | Roadside | 458713 | 452414 | NO ₂ | NO | 0.2 | 1.3 | N | ~2.75 |
| A19b | 17 Sailsbury Terrace - triplicate | Roadside | 458713 | 452414 | NO ₂ | NO | 0.2 | 1.3 | N | ~2.75 |
| A2 | Drainpipe on front of registry office | Roadside | 459917 | 452405 | NO ₂ | YES | 0.2 | 3.4 | N | ~2.75 |
| A20 | 224 Sailsbury Terrace - triplicate | Roadside | 458760 | 452404 | NO ₂ | NO | 0.2 | 1.1 | N | ~2.75 |
| A20a | 224 Sailsbury Terrace - triplicate | Roadside | 458760 | 452404 | NO ₂ | NO | 0.2 | 1.1 | N | ~2.75 |
| A20b | 224 Sailsbury Terrace - triplicate | Roadside | 458760 | 452404 | NO ₂ | NO | 0.2 | 1.1 | N | ~2.75 |
| A21 | Kingsland Terrace | Urban Background | 458806 | 452326 | NO ₂ | NO | 0.2 | 1.4 | N | ~2.75 |
| A22 | Kingsland Terrace | Urban Background | 458792 | 452242 | NO ₂ | NO | 0.2 | 23.8 | N | ~2.75 |
| A25 | Garfield Terrace | Roadside | 458706 | 452225 | NO ₂ | NO | 0.2 | 1.5 | N | ~2.75 |

| Diffusion Tube ID | Site Name | Site Type | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Pollutants Monitored | In AQMA? Which AQMA? | Distance to Relevant Exposure (m) ⁽¹⁾ | Distance to kerb of nearest road (m) ⁽²⁾ | Tube Co-located with a Continuous Analyser? | Tube Height (m) |
|-------------------|---|------------------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| A29 | Low Poppleton Lane | Urban Background | 456939 | 453013 | NO ₂ | NO | 23.6 | 1.1 | N | ~2.75 |
| A3 | WRVS building - Bootham | Roadside | 459822 | 452492 | NO ₂ | YES | 0.2 | 2.6 | N | ~2.75 |
| A30 | Boroughbridge Road | Urban Background | 457060 | 452888 | NO ₂ | NO | 8.3 | 6.2 | N | ~2.75 |
| A36 | Boroughbridge Road | Urban Background | 457625 | 452446 | NO ₂ | NO | 0.2 | 9.4 | N | ~2.75 |
| A38 | Boroughbridge Road | Urban Background | 457857 | 452334 | NO ₂ | NO | 0.2 | 10.3 | N | ~2.75 |
| A4 | St Olaves Road | Urban Background | 459699 | 452638 | NO ₂ | YES | 5.8 | 0.7 | N | ~2.75 |
| A40 | Poppleton Road School | Urban Background | 458109 | 452196 | NO ₂ | NO | 0.2 | 7.9 | N | ~2.75 |
| A41 | 140 Poppleton Road | Roadside | 458172 | 452108 | NO ₂ | NO | 0.2 | 5.3 | N | ~2.75 |
| A45 | Grantham Drive | Urban Background | 458384 | 451817 | NO ₂ | NO | 0.2 | 10.5 | N | ~2.75 |
| A98 | 8 Poppleton Road | Roadside | 458666 | 451468 | NO ₂ | NO | 0.2 | 4.9 | N | ~2.75 |
| A50 | Outside Fox pub - Holgate Rd | Roadside | 458732 | 451393 | NO ₂ | YES | 16.1 | 0.3 | N | ~2.75 |
| A51 | Thrall entrance | Urban Background | 458827 | 451348 | NO ₂ | YES | 18 | 2.2 | N | ~2.75 |
| A52 | Holgate Road (corner of Hamilton Dr East) | Roadside | 458945 | 451254 | NO ₂ | YES | 10.9 | 2 | N | ~2.75 |
| A53 | Holgate Road | Roadside | 459066 | 451239 | NO ₂ | YES | 7.9 | 2.7 | N | ~2.75 |
| A54 | Dalton Terrace | Roadside | 459254 | 451223 | NO ₂ | YES | 17.1 | 3.3 | N | ~2.75 |
| A55 | Holgate Road | Roadside | 459351 | 451221 | NO ₂ | YES | 5.5 | 0.2 | N | ~2.75 |
| A56 | Holgate Road | Urban Background | 459470 | 451268 | NO ₂ | YES | 0.2 | 10.2 | N | ~2.75 |
| A57 | Hairdressers Holgate Road | Roadside | 459533 | 451280 | NO ₂ | YES | 0.2 | 2.8 | N | ~2.75 |
| A6 | Clifton Bingo Hall | Roadside | 459536 | 452811 | NO ₂ | YES | 6.2 | 3 | N | ~2.75 |

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|-------------------|--|------------------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| A60 | Shipton Road | Urban Background | 458906 | 453276 | NO ₂ | NO | 0.2 | 21.5 | N | ~2.75 |
| A62 | 42 Shipton Road | Urban Background | 458806 | 453483 | NO ₂ | NO | 0.2 | 15.7 | N | ~2.75 |
| A64 | Lamp post outside Charlie Browns | Roadside | 460030 | 452327 | NO ₂ | YES | 2.4 | 0.6 | N | ~2.75 |
| A66 | 70 Shipton Road | Urban Background | 458672 | 453685 | NO ₂ | NO | 0.2 | 18.4 | N | ~2.75 |
| A69 | 6 South Cottages | Urban Background | 458375 | 453958 | NO ₂ | NO | 0.2 | 10 | N | ~2.75 |
| A7 | 51 Clifton | Roadside | 459441 | 452892 | NO ₂ | YES | 3.3 | 2.1 | N | ~2.75 |
| A70 | 120 Shipton Road | Urban Background | 458299 | 454070 | NO ₂ | NO | 0.2 | 13 | N | ~2.75 |
| A71 | 154 Shipton road | Urban Background | 458121 | 454254 | NO ₂ | NO | 0.2 | 9.6 | N | ~2.75 |
| A74 | 176 Shipton Road | Urban Background | 458041 | 454371 | NO ₂ | NO | 0.2 | 7.1 | N | ~2.75 |
| A77 | Lamp post outside 206 Shipton Road | Urban Background | 457929 | 454537 | NO ₂ | NO | 6.1 | 1.7 | N | ~2.75 |
| A81 | Lamp post outside 276 Shipton Rd | Urban Background | 457733 | 454805 | NO ₂ | NO | 0.2 | 8.4 | N | ~2.75 |
| A85 | Drainpipe front of Greenside guest house | Urban Background | 459364 | 453009 | NO ₂ | NO | 0.2 | 11.5 | N | ~2.75 |
| A88 | 111 Boroughbridge Road, Drainpipe nearest Garage at side of the door | Urban Background | 457470 | 452550 | NO ₂ | NO | 0.2 | 12.9 | N | ~2.75 |
| A9 | Lime Tree House | Roadside | 459295 | 453067 | NO ₂ | YES | 12.6 | 1.7 | N | ~2.75 |
| A90 | Lamp post 25 Shipton Rd | Roadside | 459238 | 453157 | NO ₂ | YES | 8.2 | 1.9 | N | ~2.75 |
| A94 | 5 Salisbury Road | Roadside | 458651 | 452426 | NO ₂ | NO | 0.2 | 13.7 | N | ~2.75 |
| A96 | Ousecliffe Gardens signpost, outside 31 Water End | Roadside | 459038 | 452850 | NO ₂ | NO | 10 | 0.6 | N | ~2.75 |

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|-------------------|--|------------------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| A97 | Lamp post next to Air Quality Monitoring Station on Plantation Drive | Roadside | 457431 | 452616 | NO ₂ | NO | 18.7 | 2.2 | N | ~2.75 |
| B1 | Lamp post 1 Lowther Street opposite Riverside House Flats | Roadside | 460848 | 452582 | NO ₂ | YES | 0.2 | 1.3 | N | ~2.75 |
| B15 | Lamp post 99 Huntington Road | Roadside | 461294 | 455305 | NO ₂ | NO | 28 | 1.6 | N | ~2.75 |
| B19 | Lamp post 5 outside Huntington Primary School | Roadside | 461891 | 455876 | NO ₂ | NO | 17.2 | 1.6 | N | ~2.75 |
| B2 | Lamp post 7 Huntington Road opposite Park Grove | Roadside | 460924 | 452697 | NO ₂ | YES | 2.5 | 1.3 | N | ~2.75 |
| B29 | Eastern Terrace | Roadside | 461453 | 452750 | NO ₂ | NO | 0.3 | 1 | N | ~2.75 |
| B3 | Lamp post 11 Huntington Road outside no 70 | Roadside | 460952 | 452826 | NO ₂ | NO | 2.9 | 1.4 | N | ~2.75 |
| B36 | Lamp post 60 Malton Road - triplicate | Urban Background | 462565 | 454194 | NO ₂ | NO | 16.9 | 0.6 | N | ~2.75 |
| B37 | Lamp post 60 Malton Road - triplicate | Urban Background | 462565 | 454194 | NO ₂ | NO | 16.9 | 0.6 | N | ~2.75 |
| B37a | Lamp post 60 Malton Road - triplicate | Urban Background | 462565 | 454194 | NO ₂ | NO | 16.9 | 0.6 | N | ~2.75 |
| B38 | 482 Malton Road | Urban Background | 463757 | 455155 | NO ₂ | NO | 0.2 | 11.7 | N | ~2.75 |
| B41 | 76 Lawrence Street | Urban Background | 461326 | 451330 | NO ₂ | YES | 0.2 | 6.5 | N | ~2.75 |

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|-------------------|--|------------------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| B42 | 83 Lawrence Street | Urban Background | 461430 | 451348 | NO ₂ | YES | 0.2 | 7.2 | N | ~2.75 |
| B43 | 117 Lawrence Street | Urban Background | 461557 | 451343 | NO ₂ | YES | 0.2 | 7.9 | N | ~2.75 |
| B44 | Outside nursing home, Lawrence Street | Roadside | 461643 | 451343 | NO ₂ | YES | 8.6 | 1.9 | N | ~2.75 |
| B45 | Pedestrian crossing Traffic Light Melrosegate Crossroads | Roadside | 461849 | 451284 | NO ₂ | YES | 17.3 | 0.5 | N | ~2.75 |
| B47 | 47 Hull Road | Urban Background | 462019 | 451289 | NO ₂ | NO | 0.2 | 12.2 | N | ~2.75 |
| B48 | 61 Hull Road | Urban Background | 462122 | 451289 | NO ₂ | NO | 0.2 | 12.8 | N | ~2.75 |
| B50 | 134 Hull Road | Roadside | 462291 | 451269 | NO ₂ | NO | 0.2 | 3.7 | N | ~2.75 |
| B51 | 117 Hull Road | Urban Background | 462384 | 451298 | NO ₂ | NO | 0.2 | 13.2 | N | ~2.75 |
| B56 | Lamp post 40 Hull Road | Roadside | 462888 | 451289 | NO ₂ | NO | 14.4 | 2.3 | N | ~2.75 |
| B58 | 231 Hull Road | Urban Background | 462970 | 451300 | NO ₂ | NO | 0.2 | 14 | N | ~2.75 |
| B60 | Lamp post 1 Nursery Gardens | Urban Background | 463234 | 451339 | NO ₂ | NO | 10.7 | 1.3 | N | ~2.75 |
| B63 | Lamp post 54 Tang Hall Lane | Roadside | 462704 | 451300 | NO ₂ | NO | 13.2 | 0.9 | N | ~2.75 |
| B72 | Front of York Cycleworks | Roadside | 461122 | 451374 | NO ₂ | YES | 10 | 2.9 | N | ~2.75 |
| B74 | Heworth Court Hotel sign outside Sutherland House on side of house on drainpipe. | Urban Background | 461371 | 452708 | NO ₂ | NO | 5.2 | 17.8 | N | ~2.75 |

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|-------------------|--|------------------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| B80 | On drainpipe on front of Heworth Surgery. | Urban Background | 461185 | 452663 | NO ₂ | NO | 24.5 | 13.4 | N | ~2.75 |
| B82 | Lamp post Dalguise Grove | Urban Background | 460974 | 452563 | NO ₂ | NO | 3.1 | 1.1 | N | ~2.75 |
| B83 | Lamp post 24 Outside No.55 Heworth Green | Roadside | 461285 | 452695 | NO ₂ | NO | 11.3 | 1 | N | ~2.75 |
| B84 | Drainpipe to the left of the front door on 167 Hull Road | Urban Background | 462654 | 451293 | NO ₂ | NO | 0.2 | 13.4 | N | ~2.75 |
| B85 | Lamp post 7 Outside St Lawrences Working Mens Club | Roadside | 461227 | 451368 | NO ₂ | YES | 18.8 | 5.6 | N | ~2.75 |
| B86 | Lamp post 16 Heworth Green, next to Air Quality Station | Roadside | 461116 | 452602 | NO ₂ | NO | 5 | 0.7 | N | ~2.75 |
| B88 | Telegraph Pole 381 Hull Road | Roadside | 462799 | 451291 | NO ₂ | NO | 10 | 6.8 | N | ~2.75 |
| B90 | 11 Lawrence Street | Roadside | 461133 | 451394 | NO ₂ | YES | 0.1 | 4.4 | N | ~2.75 |
| B91 | Lamp post 4 outside flats, opposite Rose and Crown Pub | Roadside | 461143 | 451364 | NO ₂ | YES | 0.9 | 3.1 | N | ~2.75 |
| C12 | Lamp post 1 Ainsty Grove | Urban Background | 458825 | 449928 | NO ₂ | NO | 10.8 | 0.3 | N | ~2.75 |
| C17 | 248 Tadcaster Rd | Urban Background | 459085 | 450544 | NO ₂ | NO | 0.2 | 20.6 | N | ~2.75 |
| C18 | 196 Mount Vale | Urban Background | 459204 | 450772 | NO ₂ | YES | 0.2 | 9.2 | N | ~2.75 |
| C19 | Trentholme Dr | Urban Background | 459271 | 450819 | NO ₂ | YES | 7.7 | 0.4 | N | ~2.75 |

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|-------------------|-------------------------------|------------------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| C2 | Lamp post 66 Tesco roundabout | Roadside | 458333 | 448974 | NO ₂ | NO | 16.9 | 1.1 | N | ~2.75 |
| C20 | Elmbank hotel | Urban Background | 459280 | 450923 | NO ₂ | YES | 21.4 | 0.5 | N | ~2.75 |
| C21 | Dalton Terrace | Roadside | 459410 | 451040 | NO ₂ | YES | 3.8 | 3.5 | N | ~2.75 |
| C22 | Park Street | Urban Background | 459570 | 451195 | NO ₂ | YES | 14.4 | 1.1 | N | ~2.75 |
| C23 | The Mount | Roadside | 459553 | 451252 | NO ₂ | YES | 0.2 | 3 | N | ~2.75 |
| C26 | Outside Odean | Roadside | 459639 | 451334 | NO ₂ | YES | 12.9 | 0.8 | N | ~2.75 |
| C27 | Windmill Pub | Roadside | 459717 | 451433 | NO ₂ | YES | 0.2 | 3.2 | N | ~2.75 |
| C28 | House top of Selby Rd | Urban Background | 461201 | 448386 | NO ₂ | NO | 0.2 | 15.3 | N | ~2.75 |
| C29 | Lamp post 34 Selby Road | Roadside | 461196 | 448426 | NO ₂ | NO | 21.7 | 0.5 | N | ~2.75 |
| C30 | Lamp post 2 Selby Rd | Roadside | 461185 | 448462 | NO ₂ | NO | 13.1 | 1.2 | N | ~2.75 |
| C31 | 2 Selby Rd | Urban Background | 461193 | 448473 | NO ₂ | NO | 0.2 | 14.1 | N | ~2.75 |
| C32 | Fordlands Rd | Urban Background | 461128 | 448823 | NO ₂ | NO | 5.4 | 6.8 | N | ~2.75 |
| C33 | 124 Main St | Urban Background | 461085 | 448933 | NO ₂ | NO | 1 | 11.2 | N | ~2.75 |
| C34 | 103 Main St | Roadside | 461085 | 449067 | NO ₂ | NO | 0.2 | 3.5 | N | ~2.75 |
| C36 | 50 Main St | Roadside | 461052 | 449146 | NO ₂ | NO | 0.2 | 3.7 | N | ~2.75 |
| C37 | 59 Main St | Urban Background | 461045 | 449223 | NO ₂ | NO | 0.2 | 6.7 | N | ~2.75 |
| C38 | Lamp post 8 Main St | Roadside | 461038 | 449225 | NO ₂ | NO | 6 | 0.4 | N | ~2.75 |
| C39 | 18 Main St | Roadside | 460974 | 449336 | NO ₂ | NO | 0.2 | 2.4 | N | ~2.75 |
| C4 | 147 Tadcaster Rd | Urban Background | 458470 | 449126 | NO ₂ | NO | 0.2 | 14.3 | N | ~2.75 |
| C40 | Adams House B&B | Urban Background | 460910 | 449628 | NO ₂ | NO | 0.2 | 8.7 | N | ~2.75 |

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|-------------------|---|------------------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| C42 | 300 Fulford Rd | Urban Background | 460857 | 449748 | NO ₂ | NO | 0.2 | 10 | N | ~2.75 |
| C43 | Lamp post 39 Fulford Rd - triplicate | Roadside | 460869 | 449730 | NO ₂ | NO | 8.7 | 0.3 | N | ~2.75 |
| C43a | Lamp post 39 Fulford Rd - triplicate | Roadside | 460869 | 449730 | NO ₂ | NO | 8.7 | 0.3 | N | ~2.75 |
| C44 | Lamp post 39 Fulford Rd - triplicate | Roadside | 460869 | 449730 | NO ₂ | NO | 8.7 | 0.3 | N | ~2.75 |
| C49 | Alma terrace | Urban Background | 460860 | 450530 | NO ₂ | YES | 6 | 0.9 | N | ~2.75 |
| C51 | Conservative Club | Roadside | 460871 | 450727 | NO ₂ | YES | 9.8 | 1 | N | ~2.75 |
| C52 | Howard St | Roadside | 460853 | 450781 | NO ₂ | YES | 9.9 | 1.4 | N | ~2.75 |
| C53 | Winterscale St | Roadside | 460766 | 450924 | NO ₂ | YES | 14.7 | 2.1 | N | ~2.75 |
| C54 | Escrick St | Roadside | 460762 | 451069 | NO ₂ | YES | 1.7 | 3.2 | N | ~2.75 |
| C56 | Pedestrian crossing on junction of Scarcroft Road/The Mount | Roadside | 459484 | 451141 | NO ₂ | YES | 25.1 | 1.3 | N | ~2.75 |
| C57 | Lamp post 1 Nelson's Lane | Urban Background | 458912 | 450111 | NO ₂ | NO | 5.9 | 1.3 | N | ~2.75 |
| C58 | Drainpipe of 4 Main Street Fulford | Roadside | 460926 | 449429 | NO ₂ | NO | 0.2 | 3.6 | N | ~2.75 |
| C59 | Drainpipe of 34 Tadcaster Road | Roadside | 458735 | 449713 | NO ₂ | NO | 0.2 | 3.6 | N | ~2.75 |
| C62 | East Mount Road | Roadside | 459579 | 451251 | NO ₂ | YES | 0.1 | 1 | N | ~2.75 |
| C63 | 1 St Edwards Close | Roadside | 458790 | 449740 | NO ₂ | NO | 0.1 | 15.6 | N | ~2.75 |
| C7 | Slingsby Grove | Roadside | 458611 | 449477 | NO ₂ | NO | 1.4 | 2.6 | N | ~2.75 |
| D10 | Daisy Taylors Card Shop, Kings Square | Urban Background | 460443 | 451927 | NO ₂ | NO | 0.2 | 0.9 | N | ~2.75 |
| D12 | On signpost outside 26 Fossgate | Roadside | 460567 | 451740 | NO ₂ | YES | 0.2 | 1.6 | N | ~2.75 |

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|-------------------|--|-----------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| D13 | Lamp post 4 Skeldergate, opposite City Mills | Roadside | 460271 | 451358 | NO ₂ | YES | 1.6 | 1.6 | N | ~2.75 |
| D14 | Lamp post 3 Barbican Road outside No.7 | Roadside | 461077 | 451354 | NO ₂ | YES | 1.9 | 0.2 | N | ~2.75 |
| D16 | Lamp post 1, Paragon St | Roadside | 460708 | 451231 | NO ₂ | YES | 0.2 | 3 | N | ~2.75 |
| D17 | Piccadilly/ Merchantgate junction | Roadside | 460575 | 451616 | NO ₂ | YES | 19.3 | 0.3 | N | ~2.75 |
| D18 | Lamp post 6 Clifford St opposite Peckitt Street | Roadside | 460395 | 451502 | NO ₂ | YES | 0.4 | 1.8 | N | ~2.75 |
| D19 | Bridge St/ Micklegate Junction | Roadside | 460038 | 451626 | NO ₂ | YES | 1.7 | 0.2 | N | ~2.75 |
| D20 | Low Ousegate / Clifford St junction, outside Waterstones | Roadside | 460323 | 451685 | NO ₂ | YES | 13 | 0.5 | N | ~2.75 |
| D22 | Outside Museum Gardens | Roadside | 460035 | 452010 | NO ₂ | YES | 7.9 | 2.1 | N | ~2.75 |
| D24 | Priory St sign Micklegate | Roadside | 459805 | 451543 | NO ₂ | NO | 3.4 | 0.5 | N | ~2.75 |
| D25 | Bus Stop E outside Royal York Hotel | Roadside | 459693 | 451750 | NO ₂ | YES | 169.3 | 0.4 | N | ~2.75 |
| D26 | Lamp post 14 Piccadilly (near Travellodge) | Roadside | 460671 | 451400 | NO ₂ | YES | 15.5 | 2.1 | N | ~2.75 |
| D27 | Lamp post 2 St Deny's Road - outside hotel | Roadside | 460734 | 451563 | NO ₂ | NO | 11.7 | 1.5 | N | ~2.75 |
| D28 | Lamp post 4 outside The Garden | Roadside | 460764 | 451185 | NO ₂ | YES | 23.6 | 2.4 | N | ~2.75 |

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|-------------------|---|-----------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| | of India restaurant on Fawcett Street | | | | | | | | | |
| D30 | Lamp post outside Barbican Centre | Roadside | 460834 | 451252 | NO ₂ | YES | 35.5 | 0.1 | N | ~2.75 |
| D31 | Lamp post 9 Barbican road outside No.24 | Roadside | 461002 | 451229 | NO ₂ | YES | 2 | 0.3 | N | ~2.75 |
| D32 | Lamp post 3 Bishopgate Street - next to bench | Roadside | 460258 | 451208 | NO ₂ | YES | 22.2 | 1.9 | N | ~2.75 |
| D33 | Lamp post 17 Nunnery Lane outside 81 | Roadside | 460075 | 451174 | NO ₂ | YES | 3.9 | 0.2 | N | ~2.75 |
| D35 | Drainpipe of house 22, Prices Lane | Roadside | 460134 | 451170 | NO ₂ | YES | 0.2 | 1.6 | N | ~2.75 |
| D36 | Lamp post 7 Bishopthorpe Road, opposite entrance to Charlton St | Roadside | 460135 | 450884 | NO ₂ | YES | 6.1 | 0.2 | N | ~2.75 |
| D37 | Lamp post 3, Bishopthorpe Road, outside house 26 | Roadside | 460157 | 450988 | NO ₂ | YES | 2 | 2 | N | ~2.75 |
| D38 | Lamp post 2 Scarcroft Rd | Roadside | 460088 | 450929 | NO ₂ | YES | 2.7 | 1.6 | N | ~2.75 |
| D39 | Lamp post 1 Bishopthorpe Road | Roadside | 460185 | 451055 | NO ₂ | YES | 1.5 | 0.5 | N | ~2.75 |
| D4 | Lamp post 11 Lord Mayor's Walk - opposite bike shop | Roadside | 460560 | 452300 | NO ₂ | YES | 25.1 | 2.3 | N | ~2.75 |
| D40 | Lamp post 16 Nunnery Lane | Roadside | 460069 | 451196 | NO ₂ | YES | 3.3 | 1.6 | N | ~2.75 |
| D41 | Drainpipe of 55 Lord Mayor's Walk | Roadside | 460286 | 452487 | NO ₂ | YES | 0.2 | 3.8 | N | ~2.75 |
| D43 | Rougier Street Signpost 1, has | Roadside | 459920 | 451834 | NO ₂ | YES | 3 | 0.3 | N | ~2.75 |

| Diffusion Tube ID | Site Name | Site Type | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Pollutants Monitored | In AQMA? Which AQMA? | Distance to Relevant Exposure (m) ⁽¹⁾ | Distance to kerb of nearest road (m) ⁽²⁾ | Tube Co-located with a Continuous Analyser? | Tube Height (m) |
|-------------------|--|------------------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| | "Except for Access" sign on it. | | | | | | | | | |
| D45 | Lamp post 6 The Stonebow Opposite Windsors World of Shoes | Roadside | 460673 | 451869 | NO ₂ | YES | 15.6 | 1 | N | ~2.75 |
| D47 | Lamp post 8 Jewbury | Roadside | 460682 | 452187 | NO ₂ | YES | 0.6 | 2.4 | N | ~2.75 |
| D48 | Outside De Grey House right hand side of side entrance gate post | Roadside | 460103 | 452180 | NO ₂ | YES | 33.6 | 2.3 | N | ~2.75 |
| D49 | Lamp post 1 Fishergate | Roadside | 460656 | 451269 | NO ₂ | YES | 0.2 | 2.8 | N | ~2.75 |
| D50 | Drainpipe side of Cardshop Coppergate | Roadside | 460371 | 451682 | NO ₂ | YES | 0.2 | 1.9 | N | ~2.75 |
| D51 | Inside Taxi Rank @ York Railway Station | Roadside | 459640 | 451722 | NO ₂ | NO | N | 40 | N | ~2.75 |
| D52 | Lamp post 3 Kent Street at side of car park | Roadside | 460887 | 451140 | NO ₂ | NO | 2 | 2 | N | ~2.75 |
| D53 | 58 Nunnery Lane | Roadside | 460115 | 451146 | NO ₂ | YES | 0.1 | 3.6 | N | ~2.75 |
| D54 | 76 Nunnery Lane | Roadside | 460146 | 451116 | NO ₂ | YES | 0.1 | 5.5 | N | ~2.75 |
| D55 | Museum Street - Opposite Thomas's Pub | Roadside | 460087 | 452065 | NO ₂ | YES | 1.8 | 2.2 | N | ~2.75 |
| D6 | Margaret Phillipson Court, Aldwalk | Urban Background | 460570 | 452177 | NO ₂ | NO | 0.2 | 2.6 | N | ~2.75 |
| D8 | Lamp post 2, The Stonebow - Jorvick café | Roadside | 460553 | 451843 | NO ₂ | NO | 27.3 | 0.5 | N | ~2.75 |

| Diffusion Tube ID | Site Name | Site Type | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Pollutants Monitored | In AQMA? Which AQMA? | Distance to Relevant Exposure (m) ⁽¹⁾ | Distance to kerb of nearest road (m) ⁽²⁾ | Tube Co-located with a Continuous Analyser? | Tube Height (m) |
|-------------------|--|-----------|-------------------------|--------------------------|----------------------|----------------------|--|---|---|-----------------|
| D9 | Lamp post 8, Lord Mayor's Walk outside no 34 | Roadside | 460483 | 452357 | NO ₂ | YES | 1.8 | 0.1 | N | ~2.75 |
| D56 | Three Tuns Pub, 12 Coppergate | Roadside | 460400 | 451685 | NO ₂ | YES | 0.1 | 1.6 | N | ~2.75 |
| D57 | Lamp post 4, Pedestrian Crossing, Coppergate | Roadside | 460416 | 451708 | NO ₂ | YES | 11.9 | 2.4 | N | ~2.75 |
| D58 | Traffic lights, opposite Duttons, Coppergate | Roadside | 460435 | 451732 | NO ₂ | YES | 8 | 0.1 | N | ~2.75 |
| D59 | Bus Stop outside 8/9 SLP | Roadside | 460087 | 452156 | NO ₂ | YES | 1.8 | 2.7 | N | ~2.75 |
| D60 | No entry sign outside 'Schuh' Shoe Shop | Roadside | 460294 | 451883 | NO ₂ | NO | N | 1.7 | N | ~2.75 |
| 130 | Outside 81 Low Mill Close | Roadside | 463663 | 451054 | NO ₂ | NO | 13.6 | 1.1 | N | ~2.75 |
| 115 | Inside Bus Stop (opposite side of road from tube 114) Rougier Street | Roadside | 459962 | 451771 | NO ₂ | YES | 47 | 1.5 | N | ~2.75 |

Notes:

(1) 0m if the monitoring site is at a location of exposure (e.g. installed on the façade of a residential property).

(2) N/A if not applicable.

Table A.3 – Annual Mean NO₂ Monitoring Results: Automatic Monitoring (µg/m³)

| Site ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Site Type | Valid Data Capture for Monitoring Period (%) ⁽¹⁾ | Valid Data Capture 2024 (%) ⁽²⁾ | 2020 | 2021 | 2022 | 2023 | 2024 |
|-----------------|-------------------------|--------------------------|------------------|---|--|------|------|------|------|------|
| Bootham | 460022 | 452777 | Urban Background | 98.8 | 98.8 | 12.9 | 12.7 | 12.6 | 11.8 | 11.5 |
| Fishergate | 460746 | 451038 | Roadside | 99.0 | 99.0 | 18.8 | 19.8 | 19.2 | 17.3 | 18.4 |
| Holgate | 459512 | 451282 | Roadside | 94.7 | 94.7 | 20.7 | 23.6 | 21.1 | 21.4 | 19.6 |
| Nunnery Lane | 460068 | 451199 | Roadside | 99.5 | 99.5 | 16.7 | 19.8 | 19.1 | 17.8 | 16.4 |
| Gillygate | 460147 | 452345 | Roadside | 97.3 | 97.3 | 23.5 | 25.5 | 27.1 | 25.3 | 19.8 |
| Lawrence Street | 461256 | 451340 | Roadside | 93.9 | 93.9 | 19.5 | 21.3 | 20.0 | 18.4 | 18.0 |
| Heworth Green | 461126 | 452602 | Roadside | 97.1 | 97.1 | 19.5 | 20.3 | 20.4 | 17.7 | 15.5 |
| Fulford Road | 460937 | 449464 | Roadside | 77.8 | 77.8 | 16.6 | 17.3 | 16.8 | 17.0 | 15.8 |

☒ Annualisation has been conducted where data capture is <75% and >25% in line with LAQM.TG22.

☒ Reported concentrations are those at the location of the monitoring site (annualised, as required), i.e. prior to any fall-off with distance correction.

☒ Where exceedances of the NO₂ annual mean objective occur at locations not representative of relevant exposure, the fall-off with distance concentration has been calculated and reported concentration provided in brackets for 2024.

Notes:

The annual mean concentrations are presented as µg/m³.

Exceedances of the NO₂ annual mean objective of 40µg/m³ are shown in **bold**.

All means have been “annualised” as per LAQM.TG22 if valid data capture for the full calendar year is less than 75%. See Appendix C for details.

Concentrations are those at the location of monitoring and not those following any fall-off with distance adjustment.

- (1) Data capture for the monitoring period, in cases where monitoring was only carried out for part of the year.
- (2) Data capture for the full calendar year (e.g. if monitoring was carried out for 6 months, the maximum data capture for the full calendar year is 50%).

Table A.4 – Annual Mean NO₂ Monitoring Results: Non-Automatic Monitoring (µg/m³)

| Diffusion Tube ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Site Type | Valid Data Capture for Monitoring Period (%) ⁽¹⁾ | Valid Data Capture 2024 (%) ⁽²⁾ | 2020 | 2021 | 2022 | 2023 | 2024 |
|-------------------|-------------------------|--------------------------|------------------|---|--|------|------|------|------|------|
| 5 | 462040 | 454883 | Roadside | 100.0 | 100.0 | 14.3 | 12.1 | 12.1 | 11.7 | 10.1 |
| 6 | 459777 | 451406 | Roadside | 91.7 | 91.7 | 29.1 | 33.9 | 31.1 | 28.3 | 25.2 |
| 7 | 460217 | 452421 | Roadside | 91.7 | 91.7 | 38.2 | 46.2 | 49.5 | 41.7 | 28.2 |
| 8 | 460163 | 452468 | Urban Background | 100.0 | 100.0 | 12.5 | 12.7 | 13.4 | 13.6 | 10.5 |
| 9 | 460163 | 452468 | Urban Background | 100.0 | 100.0 | 12.3 | 12.6 | 13.6 | 13.2 | 11.1 |
| 11 | 458846 | 450946 | Urban Background | 91.7 | 91.7 | 12.5 | 13.2 | 13.6 | 12.6 | 11.9 |
| 13 | 460176 | 452377 | Roadside | 91.7 | 91.7 | 38.0 | 46.5 | 45.5 | 39.8 | 28.5 |
| 14 | 460167 | 452347 | Roadside | 100.0 | 100.0 | 40.2 | 47.5 | 47.3 | 39.9 | 27.7 |
| 15 | 461105 | 451458 | Roadside | 100.0 | 100.0 | 28.7 | 30.7 | 29.5 | 27.8 | 25.7 |
| 16 | 460160 | 451152 | Roadside | 100.0 | 100.0 | 26.2 | 30.4 | 29.1 | 24.1 | 20.7 |
| 17 | 459646 | 451500 | Roadside | 100.0 | 100.0 | 25.0 | 26.0 | 27.4 | 22.5 | 26.4 |
| 18 | 460457 | 452903 | Roadside | 91.7 | 91.7 | 24.0 | 30.3 | 29.7 | 25.4 | 20.4 |
| 25 | 461721 | 452709 | Roadside | 100.0 | 100.0 | 17.1 | 18.8 | 18.0 | 17.6 | 15.3 |
| 26 | 460829 | 453524 | Roadside | 100.0 | 100.0 | 21.0 | 26.4 | 25.8 | 24.0 | 22.4 |
| 33 | 460598 | 453227 | Roadside | 91.7 | 91.7 | 20.0 | 22.5 | 21.8 | 19.4 | 15.9 |
| 35 | 457603 | 451492 | Roadside | 91.7 | 91.7 | 18.4 | 19.7 | 18.8 | 17.6 | 16.6 |
| 37 | 459522 | 451187 | Roadside | 100.0 | 100.0 | 22.6 | 23.2 | 23.1 | 21.0 | 18.4 |
| 44 | 460679 | 452326 | Roadside | 100.0 | 100.0 | 18.4 | 18.9 | 17.8 | 16.2 | 15.3 |
| 45 | 460319 | 452754 | Roadside | 91.7 | 91.7 | 25.7 | 28.9 | 29.5 | 25.1 | 18.7 |
| 47 | 462009 | 456996 | Roadside | 100.0 | 100.0 | 21.0 | 22.1 | 22.6 | 21.8 | 19.5 |
| 60 | 461017 | 451781 | Roadside | 100.0 | 100.0 | 17.2 | 17.2 | 15.0 | 15.3 | 14.5 |
| 78 | 460149 | 452342 | Roadside | 100.0 | 100.0 | 23.9 | 27.2 | 27.1 | 23.1 | 18.6 |
| 79 | 460149 | 452342 | Roadside | 100.0 | 100.0 | 24.3 | 26.2 | 26.7 | 24.4 | 19.9 |
| 80 | 460149 | 452342 | Roadside | 100.0 | 100.0 | 24.8 | 29.4 | 26.5 | 23.7 | 20.7 |

| Diffusion Tube ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Site Type | Valid Data Capture for Monitoring Period (%) ⁽¹⁾ | Valid Data Capture 2024 (%) ⁽²⁾ | 2020 | 2021 | 2022 | 2023 | 2024 |
|-------------------|-------------------------|--------------------------|------------------|---|--|------|------|------|------|------|
| 83 | 461597 | 452830 | Urban Background | 100.0 | 100.0 | 13.8 | 14.9 | 14.6 | 13.8 | 12.8 |
| 88 | 463354 | 451972 | Urban Background | 91.7 | 91.7 | 9.9 | 9.3 | 10.4 | 9.2 | 8.5 |
| 90 | 459997 | 450109 | Roadside | 100.0 | 100.0 | 10.9 | 11.0 | 11.4 | 10.1 | 10.0 |
| 96 | 460978 | 449452 | Roadside | 100.0 | 100.0 | 14.4 | 15.2 | 14.8 | 14.2 | 12.6 |
| 100 | 456228 | 453312 | Roadside | 100.0 | 100.0 | 13.2 | 14.3 | 14.1 | 11.2 | 12.0 |
| 101 | 459746 | 455897 | Roadside | 100.0 | 100.0 | 23.0 | 24.5 | 22.5 | 22.3 | 20.6 |
| 102 | 458703 | 452429 | Roadside | 91.7 | 91.7 | 23.7 | 28.8 | 25.4 | 25.9 | 20.9 |
| 103 | 458703 | 452429 | Roadside | 91.7 | 91.7 | 21.7 | 29.1 | 28.5 | 26.3 | 20.3 |
| 104 | 458703 | 452429 | Roadside | 91.7 | 91.7 | 24.4 | 29.2 | 28.4 | 27.0 | 20.0 |
| 107 | 458779 | 452387 | Roadside | 91.7 | 91.7 | 14.0 | 15.9 | 15.5 | 14.1 | 12.3 |
| 108 | 458814 | 452373 | Roadside | 100.0 | 100.0 | 18.8 | 20.1 | 20.6 | 19.3 | 15.4 |
| 109 | 459924 | 451833 | Roadside | 100.0 | 100.0 | 38.8 | 39.3 | 43.7 | 36.6 | 28.5 |
| 110 | 459985 | 451727 | Roadside | 83.3 | 83.3 | 34.4 | 39.3 | 37.2 | 31.6 | 25.3 |
| 111 | 459917 | 451728 | Roadside | 100.0 | 100.0 | 19.8 | 20.6 | 17.8 | 19.6 | 16.9 |
| 112 | 459873 | 451684 | Roadside | 100.0 | 100.0 | 17.7 | 17.3 | 17.0 | 16.3 | 14.7 |
| 114 | 459981 | 451778 | Roadside | 100.0 | 100.0 | 29.0 | 33.8 | 34.4 | 30.0 | 22.0 |
| 116 | 458212 | 452037 | Roadside | 100.0 | 100.0 | 19.4 | 22.5 | 21.6 | 20.6 | 17.1 |
| 125 | 463194 | 451967 | Roadside | 100.0 | 100.0 | 12.0 | 10.6 | 11.5 | 11.3 | 8.3 |
| 126 | 463482 | 451896 | Roadside | 100.0 | 100.0 | 13.9 | 13.9 | 13.0 | 11.9 | 9.9 |
| 127 | 461108 | 452313 | Roadside | 100.0 | 100.0 | 17.6 | 18.3 | 20.1 | 16.9 | 16.8 |
| 128 | 458686 | 452369 | Roadside | 91.7 | 91.7 | 13.5 | 14.9 | 15.1 | 13.8 | 13.1 |
| 129 | 455968 | 453397 | Roadside | 75.0 | 75.0 | 11.2 | 12.7 | 12.4 | 11.2 | 10.0 |
| 2a | 460746 | 451034 | Roadside | 100.0 | 100.0 | 17.6 | 18.7 | 17.9 | 16.4 | 17.2 |
| 2b | 460746 | 451034 | Roadside | 100.0 | 100.0 | 18.1 | 18.4 | 18.1 | 16.9 | 18.1 |
| 2c | 460746 | 451034 | Roadside | 91.7 | 91.7 | 18.0 | 18.8 | 18.4 | 17.8 | 17.1 |
| 3a | 460024 | 452767 | Urban Background | 83.3 | 83.3 | 12.3 | 12.0 | 12.0 | 11.8 | 10.9 |

| Diffusion Tube ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Site Type | Valid Data Capture for Monitoring Period (%) ⁽¹⁾ | Valid Data Capture 2024 (%) ⁽²⁾ | 2020 | 2021 | 2022 | 2023 | 2024 |
|-------------------|-------------------------|--------------------------|------------------|---|--|------|------|------|------|------|
| 3b | 460024 | 452767 | Urban Background | 91.7 | 91.7 | 11.6 | 12.5 | 11.7 | 10.8 | 10.5 |
| 3c | 460024 | 452767 | Urban Background | 100.0 | 100.0 | 11.9 | 13.8 | 12.5 | 11.7 | 8.8 |
| 95a | 460938 | 449465 | Roadside | 91.7 | 91.7 | 16.8 | 16.9 | 16.4 | 15.9 | 15.5 |
| 95b | 460938 | 449465 | Roadside | 91.7 | 91.7 | 16.6 | 16.3 | 17.3 | 16.8 | 15.6 |
| 95c | 460938 | 449465 | Roadside | 91.7 | 91.7 | 16.5 | 16.5 | 16.6 | 17.1 | 15.3 |
| 9a | 460163 | 452468 | Urban Background | 100.0 | 100.0 | 12.4 | 12.6 | 13.3 | 13.3 | 11.2 |
| A1 | 460088 | 452263 | Roadside | 100.0 | 100.0 | 36.4 | 43.6 | 44.1 | 42.6 | 31.1 |
| A11 | 459341 | 453042 | Roadside | 91.7 | 91.7 | 23.6 | 25.8 | 24.8 | 25.6 | 23.3 |
| A12 | 459251 | 453008 | Roadside | 100.0 | 100.0 | 20.1 | 22.4 | 22.6 | 22.3 | 19.7 |
| A13 | 459335 | 452931 | Urban Background | 100.0 | 100.0 | 12.9 | 13.8 | 13.0 | 12.4 | 11.0 |
| A14 | 459335 | 452931 | Urban Background | 100.0 | 100.0 | 13.0 | 13.6 | 12.4 | 13.3 | 11.9 |
| A14a | 459335 | 452931 | Urban Background | 100.0 | 100.0 | 12.3 | 13.5 | 12.8 | 12.9 | 10.8 |
| A17 | 458578 | 452472 | Roadside | 100.0 | 100.0 | 21.5 | 24.7 | 23.0 | 22.9 | 18.7 |
| A19 | 458713 | 452414 | Roadside | 100.0 | 100.0 | 21.7 | 22.7 | 23.6 | 22.5 | 17.1 |
| A19a | 458713 | 452414 | Roadside | 100.0 | 100.0 | 20.9 | 23.3 | 23.1 | 21.9 | 18.0 |
| A19b | 458713 | 452414 | Roadside | 100.0 | 100.0 | 21.3 | 22.7 | 22.7 | 21.7 | 18.7 |
| A2 | 459917 | 452405 | Roadside | 100.0 | 100.0 | 23.8 | 25.7 | 26.1 | 23.7 | 21.5 |
| A20 | 458760 | 452404 | Roadside | 100.0 | 100.0 | 23.5 | 27.2 | 25.4 | 26.1 | 18.6 |
| A20a | 458760 | 452404 | Roadside | 100.0 | 100.0 | 22.5 | 28.6 | 25.4 | 25.8 | 19.7 |
| A20b | 458760 | 452404 | Roadside | 100.0 | 100.0 | 23.7 | 28.9 | 26.6 | 26.3 | 19.6 |
| A21 | 458806 | 452326 | Urban Background | 100.0 | 100.0 | 15.5 | 14.9 | 16.6 | 15.1 | 13.5 |
| A22 | 458792 | 452242 | Urban Background | 100.0 | 100.0 | 14.5 | 15.8 | 16.9 | 16.2 | 15.0 |
| A25 | 458706 | 452225 | Roadside | 100.0 | 100.0 | 15.0 | 18.0 | 18.2 | 17.5 | 15.5 |

| Diffusion Tube ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Site Type | Valid Data Capture for Monitoring Period (%) ⁽¹⁾ | Valid Data Capture 2024 (%) ⁽²⁾ | 2020 | 2021 | 2022 | 2023 | 2024 |
|-------------------|-------------------------|--------------------------|------------------|---|--|------|------|------|------|------|
| A29 | 456939 | 453013 | Urban Background | 91.7 | 91.7 | 12.9 | 15.2 | 17.0 | 15.1 | 13.8 |
| A3 | 459822 | 452492 | Roadside | 91.7 | 91.7 | 21.7 | 23.4 | 22.2 | 22.4 | 20.9 |
| A30 | 457060 | 452888 | Urban Background | 100.0 | 100.0 | 13.3 | 15.8 | 15.1 | 14.8 | 11.9 |
| A36 | 457625 | 452446 | Urban Background | 66.7 | 66.7 | 11.4 | 13.7 | 14.1 | 11.8 | 10.8 |
| A38 | 457857 | 452334 | Urban Background | 100.0 | 100.0 | 11.8 | 12.6 | 13.0 | 12.1 | 11.0 |
| A4 | 459699 | 452638 | Urban Background | 91.7 | 91.7 | 13.9 | 14.5 | 15.6 | 15.5 | 14.5 |
| A40 | 458109 | 452196 | Urban Background | 100.0 | 100.0 | 14.0 | 16.3 | 16.1 | 15.3 | 13.2 |
| A41 | 458172 | 452108 | Roadside | 100.0 | 100.0 | 15.3 | 18.1 | 16.8 | 15.6 | 14.5 |
| A45 | 458384 | 451817 | Urban Background | 100.0 | 100.0 | 10.6 | 12.0 | 12.5 | 12.2 | 10.6 |
| A50 | 458732 | 451393 | Roadside | 100.0 | 100.0 | 21.4 | 22.5 | 23.8 | 21.0 | 16.7 |
| A51 | 458827 | 451348 | Urban Background | 100.0 | 100.0 | 15.4 | 17.9 | 18.4 | 16.7 | 13.0 |
| A52 | 458945 | 451254 | Roadside | 100.0 | 100.0 | 24.6 | 27.9 | 26.6 | 25.3 | 21.7 |
| A53 | 459066 | 451239 | Roadside | 100.0 | 100.0 | 23.4 | 28.1 | 27.5 | 24.2 | 20.6 |
| A54 | 459254 | 451223 | Roadside | 66.7 | 66.7 | 25.1 | 30.9 | 27.9 | 28.5 | 26.0 |
| A55 | 459351 | 451221 | Roadside | 100.0 | 100.0 | 24.2 | 28.0 | 26.8 | 24.6 | 19.6 |
| A56 | 459470 | 451268 | Urban Background | 50.0 | 50.0 | 19.8 | 21.7 | 22.3 | 22.0 | 17.2 |
| A57 | 459533 | 451280 | Roadside | 100.0 | 100.0 | 33.7 | 43.5 | 38.1 | 35.9 | 29.6 |
| A6 | 459536 | 452811 | Roadside | 100.0 | 100.0 | 17.9 | 18.5 | 18.9 | 17.5 | 16.9 |
| A60 | 458906 | 453276 | Urban Background | 91.7 | 91.7 | 9.7 | 10.7 | 11.2 | 10.9 | 10.2 |
| A62 | 458806 | 453483 | Urban Background | 75.0 | 75.0 | 10.1 | 11.2 | 11.9 | 11.5 | 8.7 |
| A64 | 460030 | 452327 | Roadside | 100.0 | 100.0 | 20.8 | 24.8 | 23.7 | 23.8 | 20.9 |

| Diffusion Tube ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Site Type | Valid Data Capture for Monitoring Period (%) ⁽¹⁾ | Valid Data Capture 2024 (%) ⁽²⁾ | 2020 | 2021 | 2022 | 2023 | 2024 |
|-------------------|-------------------------|--------------------------|------------------|---|--|------|------|------|------|------|
| A66 | 458672 | 453685 | Urban Background | 83.3 | 83.3 | 10.6 | 12.0 | 12.7 | 11.8 | 9.9 |
| A69 | 458375 | 453958 | Urban Background | 91.7 | 91.7 | 9.7 | 11.7 | 11.7 | 10.4 | 9.1 |
| A7 | 459441 | 452892 | Roadside | 100.0 | 100.0 | 18.8 | 20.8 | 19.4 | 18.7 | 16.7 |
| A70 | 458299 | 454070 | Urban Background | 100.0 | 100.0 | 11.5 | 13.6 | 13.7 | 13.2 | 11.8 |
| A71 | 458121 | 454254 | Urban Background | 100.0 | 100.0 | 10.0 | 10.5 | 10.4 | 10.6 | 9.4 |
| A74 | 458041 | 454371 | Urban Background | 91.7 | 91.7 | 9.7 | 10.8 | 11.5 | 9.8 | 9.4 |
| A77 | 457929 | 454537 | Urban Background | 100.0 | 100.0 | 13.4 | 13.9 | 15.7 | 14.6 | 11.7 |
| A81 | 457733 | 454805 | Urban Background | 83.3 | 83.3 | 12.3 | 12.0 | 12.8 | 12.5 | 11.0 |
| A85 | 459364 | 453009 | Urban Background | 100.0 | 100.0 | 14.5 | 16.1 | 17.3 | 16.1 | 13.8 |
| A88 | 457470 | 452550 | Urban Background | 100.0 | 100.0 | 11.4 | 12.9 | 13.5 | 13.0 | 11.3 |
| A9 | 459295 | 453067 | Roadside | 100.0 | 100.0 | 22.8 | 25.7 | 25.2 | 23.7 | 17.8 |
| A90 | 459238 | 453157 | Roadside | 100.0 | 100.0 | 25.6 | 32.7 | 30.3 | 31.7 | 22.8 |
| A94 | 458651 | 452426 | Roadside | 100.0 | 100.0 | 20.1 | 23.2 | 18.3 | 19.2 | 24.3 |
| A96 | 459038 | 452850 | Roadside | 91.7 | 91.7 | 21.5 | 25.7 | 25.0 | 24.1 | 19.6 |
| A97 | 457431 | 452616 | Roadside | 100.0 | 100.0 | 14.3 | 16.0 | 16.7 | 14.9 | 13.4 |
| A98 | 458666 | 451468 | Roadside | 100.0 | 100.0 | 17.0 | 19.4 | 18.5 | 16.8 | 13.2 |
| B1 | 460848 | 452582 | Roadside | 91.7 | 91.7 | 18.2 | 15.9 | 15.2 | 15.1 | 13.2 |
| B15 | 461294 | 455305 | Roadside | 100.0 | 100.0 | 15.1 | 15.5 | 15.2 | 14.4 | 11.6 |
| B19 | 461891 | 455876 | Roadside | 91.7 | 91.7 | 16.2 | 15.4 | 15.9 | 15.0 | 11.3 |
| B2 | 460924 | 452697 | Roadside | 100.0 | 100.0 | 17.9 | 19.4 | 18.7 | 17.3 | 16.7 |
| B29 | 461453 | 452750 | Roadside | 91.7 | 91.7 | 15.6 | 15.7 | 14.6 | 14.7 | 12.9 |
| B3 | 460952 | 452826 | Roadside | 91.7 | 91.7 | 15.9 | 17.7 | 16.8 | 16.0 | 14.3 |

| Diffusion Tube ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Site Type | Valid Data Capture for Monitoring Period (%) ⁽¹⁾ | Valid Data Capture 2024 (%) ⁽²⁾ | 2020 | 2021 | 2022 | 2023 | 2024 |
|-------------------|-------------------------|--------------------------|------------------|---|--|------|------|------|------|------|
| B36 | 462565 | 454194 | Urban Background | 100.0 | 100.0 | 10.4 | 10.9 | 9.9 | 10.8 | 9.5 |
| B37 | 462565 | 454194 | Urban Background | 75.0 | 75.0 | 9.6 | 9.8 | 10.4 | 10.4 | 9.4 |
| B37a | 462565 | 454194 | Urban Background | 83.3 | 83.3 | 10.5 | 10.2 | 10.9 | 10.1 | 8.8 |
| B38 | 463757 | 455155 | Urban Background | 100.0 | 100.0 | 11.9 | 12.5 | 12.7 | 12.0 | 12.5 |
| B41 | 461326 | 451330 | Urban Background | 91.7 | 91.7 | 20.0 | 23.7 | 23.2 | 21.8 | 18.3 |
| B42 | 461430 | 451348 | Urban Background | 100.0 | 100.0 | 15.5 | 18.4 | 17.3 | 15.7 | 13.8 |
| B43 | 461557 | 451343 | Urban Background | 91.7 | 91.7 | 14.3 | 15.9 | 15.7 | 14.4 | 12.7 |
| B44 | 461643 | 451343 | Roadside | 100.0 | 100.0 | 23.1 | 25.3 | 23.6 | 21.5 | 17.8 |
| B45 | 461849 | 451284 | Roadside | 91.7 | 91.7 | 18.7 | 22.4 | 21.1 | 18.2 | 17.0 |
| B47 | 462019 | 451289 | Urban Background | 100.0 | 100.0 | 11.2 | 11.8 | 11.7 | 10.2 | 10.0 |
| B48 | 462122 | 451289 | Urban Background | 83.3 | 83.3 | 11.8 | 14.5 | 14.5 | 13.7 | 11.4 |
| B50 | 462291 | 451269 | Roadside | 91.7 | 91.7 | 15.8 | 17.1 | 17.1 | 15.7 | 13.7 |
| B51 | 462384 | 451298 | Urban Background | 100.0 | 100.0 | 12.8 | 13.0 | 12.9 | 12.4 | 10.2 |
| B56 | 462888 | 451289 | Roadside | 100.0 | 100.0 | 20.8 | 22.7 | 21.3 | 21.1 | 18.5 |
| B58 | 462970 | 451300 | Urban Background | 91.7 | 91.7 | 12.7 | 12.6 | 13.8 | 13.0 | 11.0 |
| B60 | 463234 | 451339 | Urban Background | 100.0 | 100.0 | 12.1 | 13.7 | 13.4 | 13.6 | 11.8 |
| B63 | 462704 | 451300 | Roadside | 100.0 | 100.0 | 22.4 | 23.2 | 22.4 | 22.2 | 19.6 |
| B72 | 461122 | 451374 | Roadside | 66.7 | 66.7 | 32.5 | 33.7 | 33.8 | 30.9 | 28.1 |
| B74 | 461371 | 452708 | Urban Background | 100.0 | 100.0 | 13.7 | 13.4 | 14.1 | 12.5 | 11.6 |

| Diffusion Tube ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Site Type | Valid Data Capture for Monitoring Period (%) ⁽¹⁾ | Valid Data Capture 2024 (%) ⁽²⁾ | 2020 | 2021 | 2022 | 2023 | 2024 |
|-------------------|-------------------------|--------------------------|------------------|---|--|------|------|------|------|------|
| B80 | 461185 | 452663 | Urban Background | 100.0 | 100.0 | 12.2 | 12.5 | 11.8 | 12.4 | 9.6 |
| B82 | 460974 | 452563 | Urban Background | 100.0 | 100.0 | 17.4 | 17.3 | 19.7 | 17.5 | 14.3 |
| B83 | 461285 | 452695 | Roadside | 100.0 | 100.0 | 21.1 | 20.7 | 19.1 | 20.5 | 18.5 |
| B84 | 462654 | 451293 | Urban Background | 100.0 | 100.0 | 15.1 | 16.9 | 17.1 | 16.8 | 14.2 |
| B85 | 461227 | 451368 | Roadside | 91.7 | 91.7 | 20.8 | 24.9 | 22.8 | 20.6 | 19.4 |
| B86 | 461116 | 452602 | Roadside | 100.0 | 100.0 | 18.6 | 21.1 | 17.3 | 16.8 | 15.4 |
| B88 | 462799 | 451291 | Roadside | 91.7 | 91.7 | 19.9 | 20.4 | 20.9 | 18.7 | 16.9 |
| B90 | 461133 | 451394 | Roadside | 100.0 | 100.0 | 27.5 | 28.5 | 25.1 | 24.3 | 21.1 |
| B91 | 461142 | 451365 | Roadside | 100.0 | 100.0 | - | - | 28.8 | 27.7 | 24.0 |
| C12 | 458825 | 449928 | Urban Background | 83.3 | 83.3 | 12.1 | 13.1 | 13.0 | 12.3 | 11.6 |
| C17 | 459085 | 450544 | Urban Background | 91.7 | 91.7 | 11.4 | 12.1 | 12.8 | 12.0 | 10.5 |
| C18 | 459204 | 450772 | Urban Background | 100.0 | 100.0 | 17.0 | 16.8 | 16.6 | 21.6 | 15.0 |
| C19 | 459271 | 450819 | Urban Background | 100.0 | 100.0 | 11.7 | 12.8 | 12.8 | 13.2 | 11.1 |
| C2 | 458333 | 448974 | Roadside | 100.0 | 100.0 | 24.4 | 25.8 | 25.8 | 21.7 | 18.3 |
| C20 | 459280 | 450923 | Urban Background | 100.0 | 100.0 | 14.9 | 14.1 | 16.4 | 16.1 | 12.2 |
| C21 | 459410 | 451040 | Roadside | 100.0 | 100.0 | 20.6 | 18.7 | 18.4 | 18.1 | 14.3 |
| C22 | 459570 | 451195 | Urban Background | 91.7 | 91.7 | 15.2 | 15.4 | 15.4 | 14.9 | 14.1 |
| C23 | 459553 | 451252 | Roadside | 91.7 | 91.7 | 29.5 | 28.9 | 30.4 | 27.3 | 21.9 |
| C26 | 459639 | 451334 | Roadside | 100.0 | 100.0 | 31.2 | 34.1 | 31.7 | 30.6 | 22.7 |
| C27 | 459717 | 451433 | Roadside | 91.7 | 91.7 | 35.0 | 40.7 | 41.3 | 37.1 | 32.4 |
| C28 | 461201 | 448386 | Urban Background | 91.7 | 91.7 | 10.8 | 11.1 | 11.3 | 10.4 | 9.5 |
| C29 | 461196 | 448426 | Roadside | 100.0 | 100.0 | 19.6 | 20.3 | 20.6 | 20.7 | 17.9 |

| Diffusion Tube ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Site Type | Valid Data Capture for Monitoring Period (%) ⁽¹⁾ | Valid Data Capture 2024 (%) ⁽²⁾ | 2020 | 2021 | 2022 | 2023 | 2024 |
|-------------------|-------------------------|--------------------------|------------------|---|--|------|------|------|------|------|
| C30 | 461185 | 448462 | Roadside | 100.0 | 100.0 | 22.7 | 23.7 | 21.5 | 21.7 | 20.3 |
| C31 | 461193 | 448473 | Urban Background | 100.0 | 100.0 | 12.0 | 12.7 | 13.0 | 13.2 | 11.5 |
| C32 | 461128 | 448823 | Urban Background | 83.3 | 83.3 | 15.0 | 15.8 | 17.1 | 17.5 | 15.3 |
| C33 | 461085 | 448933 | Urban Background | 100.0 | 100.0 | 10.5 | 11.0 | 11.5 | 10.8 | 10.4 |
| C34 | 461085 | 449067 | Roadside | 100.0 | 100.0 | 16.2 | 17.3 | 17.2 | 17.3 | 15.0 |
| C36 | 461052 | 449146 | Roadside | 100.0 | 100.0 | 19.7 | 20.1 | 20.6 | 19.7 | 18.9 |
| C37 | 461045 | 449223 | Urban Background | 91.7 | 91.7 | 14.2 | 15.7 | 16.1 | 15.1 | 14.1 |
| C38 | 461038 | 449225 | Roadside | 100.0 | 100.0 | 17.1 | 18.2 | 18.1 | 18.7 | 15.7 |
| C39 | 460974 | 449336 | Roadside | 100.0 | 100.0 | 22.9 | 22.8 | 22.2 | 24.9 | 22.1 |
| C4 | 458470 | 449126 | Urban Background | 100.0 | 100.0 | 12.5 | 12.5 | 12.9 | 12.0 | 10.7 |
| C40 | 460910 | 449628 | Urban Background | 100.0 | 100.0 | 12.6 | 12.9 | 13.7 | 13.4 | 13.3 |
| C42 | 460857 | 449748 | Urban Background | 100.0 | 100.0 | 14.3 | 15.2 | 15.9 | 16.5 | 14.2 |
| C43 | 460869 | 449730 | Roadside | 100.0 | 100.0 | 18.4 | 19.3 | 19.7 | 20.0 | 18.5 |
| C43a | 460869 | 449730 | Roadside | 91.7 | 91.7 | 19.3 | 20.2 | 20.6 | 20.9 | 19.3 |
| C44 | 460869 | 449730 | Roadside | 100.0 | 100.0 | 19.6 | 19.7 | 20.6 | 20.1 | 18.6 |
| C49 | 460860 | 450530 | Urban Background | 91.7 | 91.7 | 13.0 | 14.3 | 14.2 | 13.1 | 11.8 |
| C51 | 460871 | 450727 | Roadside | 91.7 | 91.7 | 17.9 | 19.3 | 18.1 | 18.9 | 15.9 |
| C52 | 460853 | 450781 | Roadside | 100.0 | 100.0 | 17.8 | 17.2 | 18.1 | 16.3 | 14.1 |
| C53 | 460766 | 450924 | Roadside | 16.7 | 16.7 | 15.2 | 16.0 | 16.5 | 16.7 | 15.8 |
| C54 | 460762 | 451069 | Roadside | 100.0 | 100.0 | 18.4 | 21.3 | 20.0 | 19.7 | 18.6 |
| C56 | 459484 | 451141 | Roadside | 83.3 | 83.3 | 21.8 | 25.0 | 24.8 | 22.4 | 18.0 |
| C57 | 458912 | 450111 | Urban Background | 100.0 | 100.0 | 14.4 | 14.4 | 15.3 | 14.4 | 12.2 |

| Diffusion Tube ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Site Type | Valid Data Capture for Monitoring Period (%) ⁽¹⁾ | Valid Data Capture 2024 (%) ⁽²⁾ | 2020 | 2021 | 2022 | 2023 | 2024 |
|-------------------|-------------------------|--------------------------|------------------|---|--|------|------|------|------|------|
| C58 | 460926 | 449429 | Roadside | 100.0 | 100.0 | 24.6 | 25.4 | 26.0 | 25.0 | 23.9 |
| C59 | 458735 | 449713 | Roadside | 100.0 | 100.0 | 22.3 | 23.3 | 25.0 | 21.7 | 17.6 |
| C62 | 459579 | 451251 | Roadside | 91.7 | 91.7 | 20.1 | 20.8 | 21.3 | 19.1 | 16.6 |
| C63 | 458790 | 449740 | Roadside | 100.0 | 100.0 | 13.3 | 13.8 | 12.0 | 12.1 | 10.7 |
| C7 | 458611 | 449477 | Roadside | 91.7 | 91.7 | 14.9 | 15.4 | 13.1 | 13.3 | 12.1 |
| D10 | 460443 | 451927 | Urban Background | 91.7 | 91.7 | 11.3 | 12.5 | 13.3 | 12.6 | 12.4 |
| D12 | 460567 | 451740 | Roadside | 91.7 | 91.7 | 15.7 | 14.3 | 14.2 | 12.9 | 11.1 |
| D13 | 460271 | 451358 | Roadside | 100.0 | 100.0 | 20.4 | 17.6 | 18.4 | 16.7 | 13.3 |
| D14 | 461077 | 451354 | Roadside | 100.0 | 100.0 | 28.2 | 30.8 | 28.0 | 28.4 | 25.9 |
| D16 | 460708 | 451231 | Roadside | 100.0 | 100.0 | 29.2 | 32.9 | 30.4 | 28.8 | 25.4 |
| D17 | 460575 | 451616 | Roadside | 91.7 | 91.7 | 23.7 | 28.5 | 30.9 | 24.7 | 20.4 |
| D18 | 460395 | 451502 | Roadside | 75.0 | 75.0 | 23.1 | 24.2 | 22.7 | 20.4 | 18.2 |
| D19 | 460038 | 451626 | Roadside | 100.0 | 100.0 | 34.8 | 40.5 | 38.2 | 32.4 | 23.8 |
| D20 | 460323 | 451685 | Roadside | 100.0 | 100.0 | 30.1 | 33.4 | 36.6 | 31.2 | 21.3 |
| D22 | 460035 | 452010 | Roadside | 83.3 | 83.3 | 27.2 | 32.3 | 30.7 | 28.9 | 21.4 |
| D24 | 459805 | 451543 | Roadside | 100.0 | 100.0 | 18.9 | 20.5 | 19.6 | 18.0 | 18.0 |
| D25 | 459693 | 451750 | Roadside | 100.0 | 100.0 | 29.0 | 33.0 | 34.7 | 31.9 | 28.6 |
| D26 | 460671 | 451400 | Roadside | 91.7 | 91.7 | 20.2 | 25.1 | 23.6 | 20.7 | 17.2 |
| D27 | 460734 | 451563 | Roadside | 100.0 | 100.0 | 19.5 | 20.8 | 19.0 | 15.9 | 13.2 |
| D28 | 460764 | 451185 | Roadside | 91.7 | 91.7 | 25.0 | 27.4 | 26.1 | 23.5 | 24.1 |
| D30 | 460834 | 451252 | Roadside | 91.7 | 91.7 | 18.6 | 20.4 | 18.4 | 18.0 | 15.9 |
| D31 | 461002 | 451229 | Roadside | 91.7 | 91.7 | 20.6 | 24.4 | 22.9 | 22.2 | 20.3 |
| D32 | 460258 | 451208 | Roadside | 91.7 | 91.7 | 26.4 | 29.1 | 27.9 | 25.0 | 22.7 |
| D33 | 460075 | 451174 | Roadside | 100.0 | 100.0 | 20.7 | 24.4 | 24.4 | 24.4 | 21.0 |
| D35 | 460134 | 451170 | Roadside | 75.0 | 75.0 | 27.2 | 32.8 | 30.6 | 25.7 | 24.8 |
| D36 | 460135 | 450884 | Roadside | 100.0 | 100.0 | 22.8 | 25.2 | 24.9 | 22.8 | 20.7 |
| D37 | 460157 | 450988 | Roadside | 91.7 | 91.7 | 18.7 | 22.6 | 20.9 | 19.7 | 20.7 |

| Diffusion Tube ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Site Type | Valid Data Capture for Monitoring Period (%) ⁽¹⁾ | Valid Data Capture 2024 (%) ⁽²⁾ | 2020 | 2021 | 2022 | 2023 | 2024 |
|-------------------|-------------------------|--------------------------|------------------|---|--|------|------|------|------|------|
| D38 | 460088 | 450929 | Roadside | 83.3 | 83.3 | 16.8 | 18.2 | 16.6 | 15.8 | 15.5 |
| D39 | 460185 | 451055 | Roadside | 91.7 | 91.7 | 20.4 | 23.5 | 23.8 | 20.7 | 19.8 |
| D4 | 460560 | 452300 | Roadside | 91.7 | 91.7 | 19.2 | 22.2 | 21.1 | 19.6 | 18.4 |
| D40 | 460069 | 451196 | Roadside | 100.0 | 100.0 | 18.9 | 21.7 | 19.2 | 17.4 | 17.2 |
| D41 | 460286 | 452487 | Roadside | 100.0 | 100.0 | 27.9 | 30.8 | 31.9 | 30.8 | 25.5 |
| D43 | 459920 | 451834 | Roadside | 91.7 | 91.7 | 34.2 | 36.9 | 39.3 | 30.7 | 25.3 |
| D45 | 460673 | 451869 | Roadside | 100.0 | 100.0 | 17.7 | 18.7 | 17.9 | 16.1 | 14.9 |
| D47 | 460682 | 452187 | Roadside | 83.3 | 83.3 | 20.8 | 19.3 | 18.0 | 18.7 | 16.3 |
| D48 | 460103 | 452180 | Roadside | 100.0 | 100.0 | 28.0 | 35.1 | 35.4 | 30.4 | 21.7 |
| D49 | 460656 | 451269 | Roadside | 100.0 | 100.0 | 24.4 | 30.0 | 29.8 | 25.7 | 24.2 |
| D50 | 460371 | 451682 | Roadside | 83.3 | 83.3 | 27.2 | 29.1 | 29.4 | 27.0 | 20.7 |
| D51 | 459640 | 451722 | Roadside | 91.7 | 91.7 | 34.4 | 35.9 | 41.4 | 40.4 | 35.5 |
| D52 | 460887 | 451140 | Roadside | 91.7 | 91.7 | 17.4 | 19.3 | 19.4 | 13.9 | 14.4 |
| D53 | 460115 | 451146 | Roadside | 91.7 | 91.7 | 19.6 | 21.9 | 19.8 | 17.8 | 16.7 |
| D54 | 460146 | 451116 | Roadside | 91.7 | 91.7 | 18.5 | 20.6 | 19.3 | 18.1 | 16.4 |
| D55 | 460087 | 452065 | Roadside | 91.7 | 91.7 | 33.5 | 44.9 | 39.2 | 37.1 | 24.5 |
| D6 | 460570 | 452177 | Urban Background | 100.0 | 100.0 | 13.5 | 16.2 | 14.8 | 13.3 | 11.8 |
| D8 | 460553 | 451843 | Roadside | 100.0 | 100.0 | 28.4 | 32.2 | 33.0 | 30.4 | 20.1 |
| D9 | 460483 | 452357 | Roadside | 100.0 | 100.0 | 25.3 | 27.7 | 31.0 | 28.4 | 24.2 |
| D56 | 460400 | 451685 | Roadside | 100.0 | 100.0 | 31.2 | 31.8 | 35.9 | 35.1 | 27.2 |
| D57 | 460416 | 451708 | Roadside | 91.7 | 91.7 | 25.0 | 26.1 | 24.9 | 22.7 | 16.9 |
| D58 | 460435 | 451732 | Roadside | 91.7 | 91.7 | 26.1 | 29.5 | 31.2 | 29.5 | 22.2 |
| D59 | 460087 | 452156 | Roadside | 100.0 | 100.0 | 35.4 | 43.2 | 44.7 | 37.5 | 25.0 |
| D60 | 460294 | 451883 | Roadside | 91.7 | 91.7 | 15.6 | 14.2 | 15.7 | 14.4 | 13.5 |
| 130 | 463663 | 451054 | Roadside | 75.0 | 75.0 | 10.5 | 10.1 | 10.5 | 9.8 | 7.1 |
| 115 | 459962 | 451771 | Roadside | 100.0 | 100.0 | 48.8 | 44.7 | 50.9 | 45.0 | 28.0 |

☒ Annualisation has been conducted where data capture is <75% and >25% in line with LAQM.TG22.

☒ Diffusion tube data has been bias adjusted.

☒ Reported concentrations are those at the location of the monitoring site (bias adjusted and annualised, as required), i.e. prior to any fall-off with distance correction.

Notes:

The annual mean concentrations are presented as $\mu\text{g}/\text{m}^3$.

Exceedances of the NO_2 annual mean objective of $40\mu\text{g}/\text{m}^3$ are shown in **bold**.

NO_2 annual means exceeding $60\mu\text{g}/\text{m}^3$, indicating a potential exceedance of the NO_2 1-hour mean objective are shown in **bold and underlined**.

Means for diffusion tubes have been corrected for bias. All means have been “annualised” as per LAQM.TG22 if valid data capture for the full calendar year is less than 75%. See Appendix C for details.

Concentrations are those at the location of monitoring and not those following any fall-off with distance adjustment.

(1) Data capture for the monitoring period, in cases where monitoring was only carried out for part of the year.

(2) Data capture for the full calendar year (e.g. if monitoring was carried out for 6 months, the maximum data capture for the full calendar year is 50%).

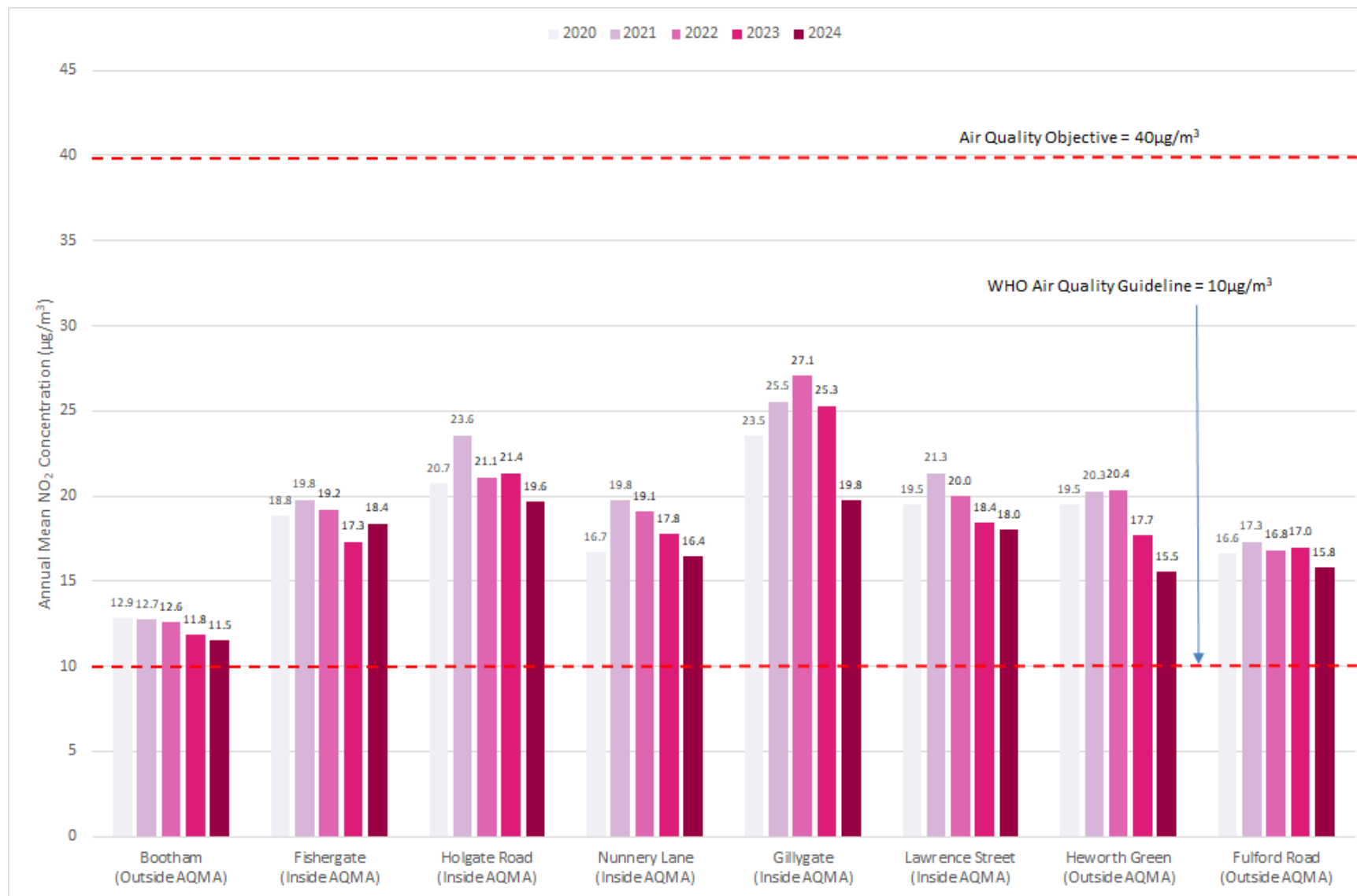
Figure A.1 – Trends in Annual Mean NO₂ Concentrations

Table A.5 – 1-Hour Mean NO₂ Monitoring Results, Number of 1-Hour Means > 200µg/m³

| Site ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Site Type | Valid Data Capture for Monitoring Period (%) ⁽¹⁾ | Valid Data Capture 2024 (%) ⁽²⁾ | 2020 | 2021 | 2022 | 2023 | 2024 |
|-----------------|-------------------------|--------------------------|------------------|---|--|------|------|------|------|----------|
| Bootham | 460022 | 452777 | Urban Background | 98.8 | 98.8 | 0 | 0 | 0 | 0 | 0 |
| Fishergate | 460746 | 451038 | Roadside | 99.0 | 99.0 | 0 | 0 | 0 | 0 | 0 |
| Holgate | 459512 | 451282 | Roadside | 94.7 | 94.7 | 0 | 0 | 0 | 0 | 0 |
| Nunnery Lane | 460068 | 451199 | Roadside | 99.5 | 99.5 | 0 | 0 | 0 | 0 | 0 |
| Gillygate | 460147 | 452345 | Roadside | 97.3 | 97.3 | 0 | 0 | 0 | 0 | 0 |
| Lawrence Street | 461256 | 451340 | Roadside | 93.9 | 93.9 | 0 | 0 | 0 | 0 | 0 |
| Heworth Green | 461126 | 452602 | Roadside | 97.1 | 97.1 | 0 | 0 | 0 | 0 | 0 |
| Fulford Road | 460937 | 449464 | Roadside | 77.8 | 77.8 | 0 | 0 | 0 | 0 | 0 (65.9) |

Notes:

Results are presented as the number of 1-hour periods where concentrations greater than 200µg/m³ have been recorded.

Exceedances of the NO₂ 1-hour mean objective (200µg/m³ not to be exceeded more than 18 times/year) are shown in **bold**.

If the period of valid data is less than 85%, the 99.8th percentile of 1-hour means is provided in brackets.

(1) Data capture for the monitoring period, in cases where monitoring was only carried out for part of the year.

(2) Data capture for the full calendar year (e.g. if monitoring was carried out for 6 months, the maximum data capture for the full calendar year is 50%).

Figure A.2 – Trends in Number of NO₂ 1-Hour Means > 200µg/m³



Table A.6 – Annual Mean PM₁₀ Monitoring Results (µg/m³)

| Site ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Site Type | Valid Data Capture for Monitoring Period (%) ⁽¹⁾ | Valid Data Capture 2024 (%) ⁽²⁾ | 2020 | 2021 | 2022 | 2023 | 2024 |
|------------------|-------------------------|--------------------------|------------------|---|--|------|------|------|------|------|
| Bootham | 460022 | 452777 | Urban Background | 94.8 | 94.8 | 15.2 | 13.4 | 15.2 | 11.6 | 12.6 |
| Fishergate | 460746 | 451038 | Roadside | 95.4 | 95.4 | 19.2 | 15.8 | 16.8 | 13.7 | 15.4 |
| Plantation Drive | 457428 | 452620 | Roadside | 89.5 | 89.5 | 15.8 | 16.0 | 16.3 | 15.4 | 17.8 |

 **Annualisation has been conducted where data capture is <75% and >25% in line with LAQM.TG22.**

Notes:

The annual mean concentrations are presented as µg/m³.

Exceedances of the PM₁₀ annual mean objective of 40µg/m³ are shown in **bold**.

All means have been “annualised” as per LAQM.TG22 if valid data capture for the full calendar year is less than 75%. See Appendix C for details.

(1) Data capture for the monitoring period, in cases where monitoring was only carried out for part of the year.

(2) Data capture for the full calendar year (e.g. if monitoring was carried out for 6 months, the maximum data capture for the full calendar year is 50%).

Figure A.3 – Trends in Annual Mean PM₁₀ Concentrations

Table A.7 – 24-Hour Mean PM₁₀ Monitoring Results, Number of PM₁₀ 24-Hour Means > 50µg/m³

| Site ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Site Type | Valid Data Capture for Monitoring Period (%) ⁽¹⁾ | Valid Data Capture 2024 (%) ⁽²⁾ | 2020 | 2021 | 2022 | 2023 | 2024 |
|------------------|-------------------------|--------------------------|------------------|---|--|------|------|------|------|------|
| Bootham | 460022 | 452777 | Urban Background | 94.8 | 94.8 | 2 | 0 | 3 | 0 | 0 |
| Fishergate | 460746 | 451038 | Roadside | 95.4 | 95.4 | 1 | 0 | 6 | 0 | 2 |
| Plantation Drive | 457428 | 452620 | Roadside | 89.5 | 89.5 | 1 | 0 | 0 | 0 | 1 |

Notes:

Results are presented as the number of 24-hour periods where daily mean concentrations greater than 50µg/m³ have been recorded.

Exceedances of the PM₁₀ 24-hour mean objective (50µg/m³ not to be exceeded more than 35 times/year) are shown in **bold**.

If the period of valid data is less than 85%, the 90.4th percentile of 24-hour means is provided in brackets.

(1) Data capture for the monitoring period, in cases where monitoring was only carried out for part of the year.

(2) Data capture for the full calendar year (e.g. if monitoring was carried out for 6 months, the maximum data capture for the full calendar year is 50%).

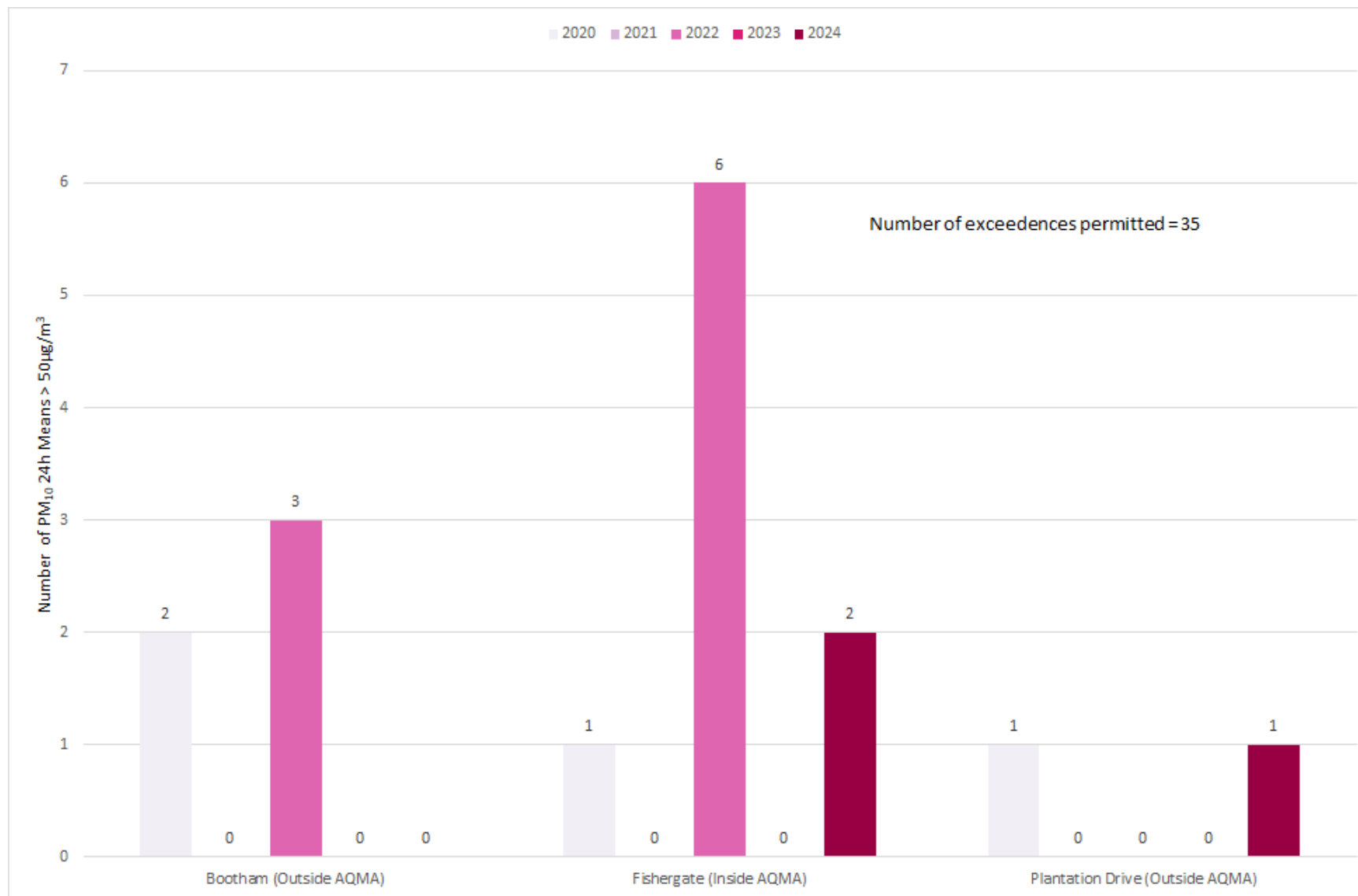
Figure A.4 – Trends in Number of 24-Hour Mean PM₁₀ Results > 50µg/m³

Table A.8 – Annual Mean PM_{2.5} Monitoring Results (µg/m³)

| Site ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Site Type | Valid Data Capture for Monitoring Period (%) ⁽¹⁾ | Valid Data Capture 2024 (%) ⁽²⁾ | 2020 | 2021 | 2022 | 2023 | 2024 |
|--------------|-------------------------|--------------------------|------------------|---|--|------|------|------|------|------|
| Bootham | 460022 | 452777 | Urban Background | 96.5 | 96.5 | 8.6 | 8.4 | 8.2 | 7.4 | 7.7 |
| Fishergate | 460746 | 451038 | Roadside | 90.3 | 90.3 | 7.6 | 7.9 | 8.8 | 8.0 | 7.5 |
| Gillygate | 460147 | 452345 | Roadside | 86.0 | 86.0 | 7.1 | 6.1 | 7.2 | 7.2 | 9.0 |
| Holgate Road | 459512 | 451282 | Roadside | 37.2 | 37.2 | - | - | - | 7.8 | 7.6 |

 **Annualisation has been conducted where data capture is <75% and >25% in line with LAQM.TG22.**

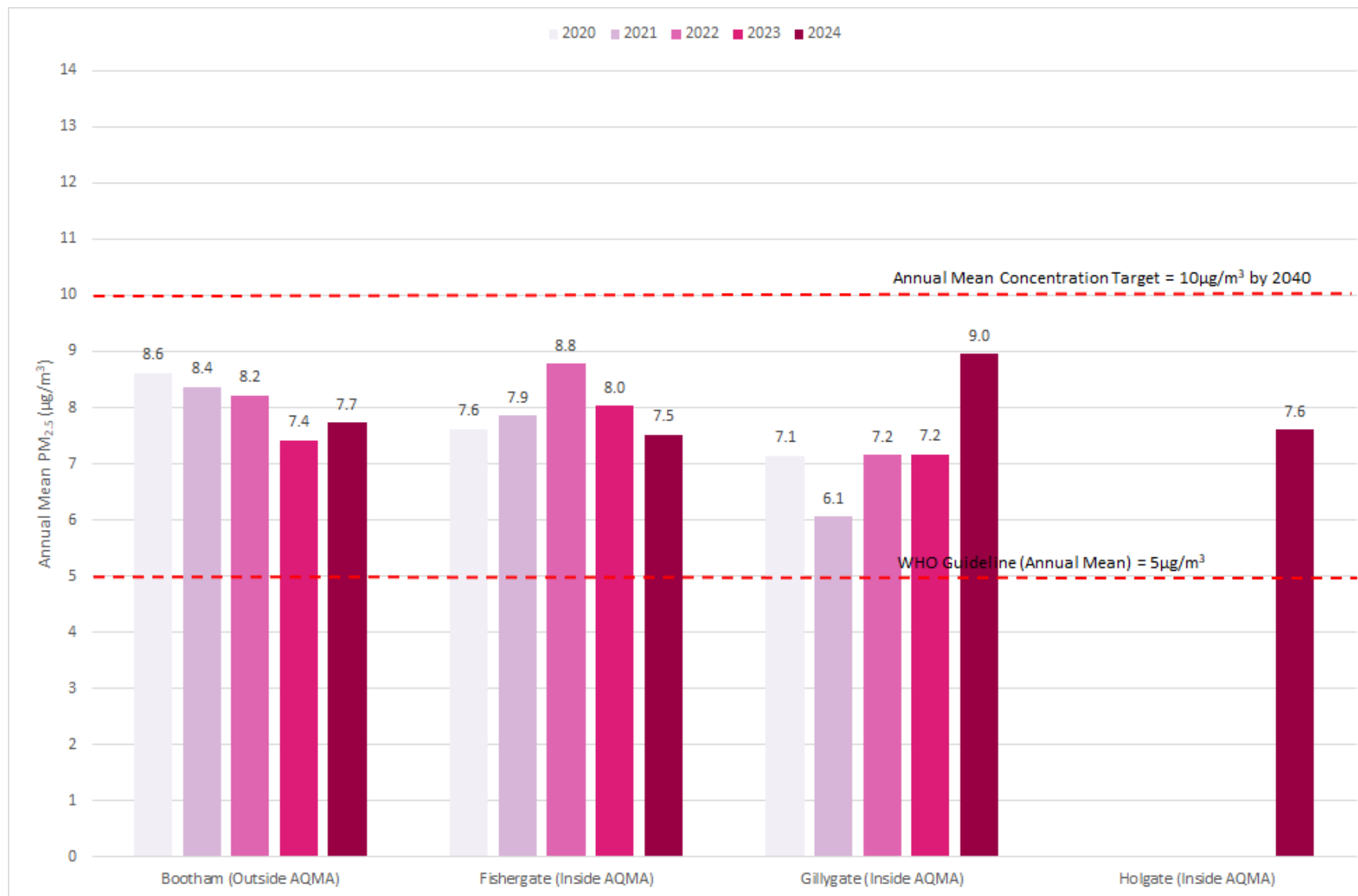
Notes:

The annual mean concentrations are presented as µg/m³.

All means have been “annualised” as per LAQM.TG22 if valid data capture for the full calendar year is less than 75%. See Appendix C for details.

(1) Data capture for the monitoring period, in cases where monitoring was only carried out for part of the year.

(2) Data capture for the full calendar year (e.g. if monitoring was carried out for 6 months, the maximum data capture for the full calendar year is 50%).

Figure A.5 – Trends in Annual Mean PM_{2.5} Concentrations

Appendix B: Full Monthly Diffusion Tube Results for 2024

Table B.1 – NO₂ 2024 Diffusion Tube Results (µg/m³)

| DT ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual Mean: Raw Data | Annual Mean: Annualised and Bias Adjusted (0.8) | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|-------|-------------------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|---|---|---|
| 5 | 462040 | 454883 | 16.5 | 14.5 | 14.0 | 9.6 | 10.3 | 10.7 | 10.3 | 10.2 | 9.6 | 16.6 | 21.3 | 8.1 | 12.6 | 10.1 | - | |
| 6 | 459777 | 451406 | 44.8 | 34.9 | 29.0 | 34.9 | 30.2 | 27.3 | 30.3 | | 34.4 | 30.3 | 38.8 | 12.1 | 31.5 | 25.2 | - | |
| 7 | 460217 | 452421 | 43.1 | 42.3 | 37.6 | 33.2 | 36.7 | | 31.8 | 28.5 | 34.9 | 35.9 | 35.5 | 27.9 | 35.2 | 28.2 | - | |
| 8 | 460163 | 452468 | 19.7 | 22.1 | 15.0 | 12.3 | 11.9 | 10.1 | 9.3 | 10.7 | 9.9 | 18.8 | 13.2 | 4.9 | 13.2 | 10.5 | - | Part of triplicate set - see bottom of table for triplicate average |
| 9 | 460163 | 452468 | 19.0 | 22.7 | 15.5 | 10.8 | 11.5 | 8.8 | 9.3 | 10.4 | 8.7 | 18 | 19.7 | 12.7 | 13.9 | 11.1 | - | Part of triplicate set - see bottom of table for triplicate average |
| 11 | 458846 | 450946 | 19.3 | 18.4 | 19.5 | 12.2 | 13.6 | 10.0 | 11.4 | 10.4 | | 16.9 | 16 | 15.7 | 14.9 | 11.9 | - | |
| 13 | 460176 | 452377 | | 41.1 | 36.0 | 30.3 | 33.6 | 33.4 | 32.6 | 31.5 | 36.5 | 40.3 | 41.6 | 34.4 | 35.6 | 28.5 | - | |
| 14 | 460167 | 452347 | 44.3 | 33.9 | 46.8 | 32.8 | 38.3 | 31.1 | 33.8 | 34.1 | 33.4 | 42.6 | 31.8 | 13.2 | 34.7 | 27.7 | - | |
| 15 | 461105 | 451458 | 43.8 | 38.9 | 40.5 | 30.1 | 31.6 | 23.6 | 27.6 | 28.0 | 24.8 | 38.1 | 32.4 | 25.7 | 32.1 | 25.7 | - | |
| 16 | 460160 | 451152 | 39.8 | 36.7 | 22.7 | 24.1 | 26.4 | 23.1 | 23.6 | 24.4 | 30.3 | 15.8 | 23.8 | 19.7 | 25.9 | 20.7 | - | |
| 17 | 459646 | 451500 | 23.4 | 32.0 | 30.3 | 29.8 | 36.5 | 35.4 | 38.6 | 31.7 | 29.7 | 37.3 | 46.7 | 24.2 | 33.0 | 26.4 | - | |
| 18 | 460457 | 452903 | 33.7 | 34.7 | 25.0 | 23.3 | | 21.8 | 21.2 | 22.4 | 11.9 | 28.7 | 31.9 | 25.6 | 25.5 | 20.4 | - | |
| 25 | 461721 | 452709 | 28.6 | 25.9 | 19.6 | 13.7 | 18.1 | 16.1 | 17.1 | 14.7 | 13.7 | 19.4 | 28.3 | 14 | 19.1 | 15.3 | - | |
| 26 | 460829 | 453524 | 35.2 | 40.6 | 29.0 | 25.0 | 25.4 | 28.0 | 25.2 | 25.1 | 21.8 | 22.8 | 32.9 | 25.1 | 28.0 | 22.4 | - | |
| 33 | 460598 | 453227 | 26.8 | 28.1 | 21.8 | 17.6 | 17.3 | 14.9 | 16.5 | | 14.4 | 21.1 | 27.3 | 12.6 | 19.9 | 15.9 | - | |
| 35 | 457603 | 451492 | 23.1 | 29.6 | 21.6 | 15.7 | 19.1 | 17.4 | | 15.9 | 17.0 | 20.5 | 27.5 | 20.3 | 20.7 | 16.6 | - | |
| 37 | 459522 | 451187 | 29.5 | 31.8 | 32.2 | 21.5 | 22.6 | 18.6 | 21.3 | 16.9 | 27.2 | 22.6 | 11.7 | 20.8 | 23.1 | 18.4 | - | |
| 44 | 460679 | 452326 | 22.3 | 28.9 | 21.9 | 20.5 | 19.6 | 15.5 | 15.6 | 16.6 | 17.4 | 21.8 | 25.2 | 4.6 | 19.2 | 15.3 | - | |
| 45 | 460319 | 452754 | 32.3 | 33.6 | 21.0 | 19.9 | 18.4 | 19.1 | 19.7 | 18.7 | 18.2 | 26.2 | 29.8 | | 23.4 | 18.7 | - | |
| 47 | 462009 | 456996 | 30.2 | 28.6 | 28.5 | 22.8 | 21.8 | 20.5 | 21.1 | 21.8 | 15.9 | 28.5 | 29.1 | 23.2 | 24.3 | 19.5 | - | |
| 60 | 461017 | 451781 | 18.3 | 25.0 | 20.0 | 14.7 | 15.7 | 13.2 | 13.5 | 13.9 | 14.9 | 21.8 | 26.9 | 18.9 | 18.1 | 14.5 | - | |
| 78 | 460149 | 452342 | 30.2 | 32.3 | 26.2 | 24.8 | 24.6 | 21.0 | 22.1 | 19.6 | 19.1 | 26.9 | 9.6 | 22.9 | 23.3 | 18.6 | - | Part of triplicate set - see bottom of table for triplicate average |
| 79 | 460149 | 452342 | 33.3 | 34.4 | 29.4 | 23.5 | 25.4 | 20.3 | 21.1 | 19.5 | 24.3 | 26.9 | 29.7 | 10.8 | 24.9 | 19.9 | - | Part of triplicate set - see bottom of table for triplicate average |
| 80 | 460149 | 452342 | 32.6 | 35.0 | 24.6 | 23.6 | 25.0 | 21.3 | 21.3 | 20.4 | 24.3 | 30.6 | 30.3 | 22.2 | 25.9 | 20.7 | - | Part of triplicate set - see bottom of table for triplicate average |
| 83 | 461597 | 452830 | 22.5 | 22.3 | 15.2 | 11.8 | 14.0 | 14.0 | 13.1 | 11.1 | 12.8 | 18.3 | 22.7 | 14.8 | 16.1 | 12.8 | - | |
| 88 | 463354 | 451972 | 14.7 | 15.5 | 11.4 | 7.8 | 8.0 | 6.0 | 6.5 | | 4.3 | 13.3 | 17.2 | 12.7 | 10.7 | 8.5 | - | |
| 90 | 459997 | 450109 | 16.8 | 15.0 | 12.1 | 9.0 | 10.8 | 8.3 | 10.9 | 8.9 | 12.0 | 14.2 | 17.7 | 14.8 | 12.5 | 10.0 | - | |
| 96 | 460978 | 449452 | 22.0 | 19.5 | 18.6 | 13.7 | 13.0 | 12.1 | 11.9 | 11.9 | 10.5 | 18.9 | 22.5 | 13.9 | 15.7 | 12.6 | - | |
| 100 | 456228 | 453312 | 17.4 | 21.2 | 17.2 | 10.9 | 13.7 | 10.2 | 12.3 | 13.3 | 9.0 | 19.8 | 21 | 13.9 | 15.0 | 12.0 | - | |
| 101 | 459746 | 455897 | 33.3 | 27.2 | 26.2 | 20.3 | 26.8 | 24.9 | 26.7 | 26.3 | 19.0 | 31.1 | 31.4 | 16 | 25.8 | 20.6 | - | |

| DT ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual Mean: Raw Data | Annual Mean: Annualised and Bias Adjusted (0.8) | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|-------|-------------------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|---|---|---|
| 102 | 458703 | 452429 | 37.1 | 35.6 | 31.2 | 23.5 | 24.6 | 17.4 | 19.7 | 17.1 | 21.9 | 25.9 | 33.3 | | 26.1 | 20.9 | - | Part of triplicate set - see bottom of table for triplicate average |
| 103 | 458703 | 452429 | 38.5 | 37.2 | 30.4 | 21.1 | 22.7 | 17.3 | 18.3 | 17.1 | 11.3 | 32.5 | 33 | | 25.4 | 20.3 | - | Part of triplicate set - see bottom of table for triplicate average |
| 104 | 458703 | 452429 | 37.4 | 36.8 | 31.2 | 22.9 | 23.2 | 16.3 | 19.5 | 17.6 | 9.9 | 29.9 | 30.7 | | 25.0 | 20.0 | - | Part of triplicate set - see bottom of table for triplicate average |
| 107 | 458779 | 452387 | 21.8 | 20.6 | 19.4 | 11.6 | | 10.3 | 12.2 | 11.6 | 8.9 | 20.8 | 23.8 | 8.4 | 15.4 | 12.3 | - | |
| 108 | 458814 | 452373 | 28.7 | 28.3 | 21.8 | 15.1 | 15.4 | 13.2 | 15.5 | 15.9 | 11.9 | 23.3 | 27.4 | 13.9 | 19.2 | 15.4 | - | |
| 109 | 459924 | 451833 | 45.8 | 47.4 | 39.7 | 29.2 | 33.1 | 26.0 | 31.0 | 30.7 | 28.8 | 37.3 | 38.6 | 39.7 | 35.6 | 28.5 | - | |
| 110 | 459985 | 451727 | | 46.4 | 37.2 | 29.0 | 28.9 | 31.5 | 29.4 | 28.1 | 24.5 | 35.9 | 25.1 | | 31.6 | 25.3 | - | |
| 111 | 459917 | 451728 | 30.8 | 30.4 | 21.9 | 19.1 | 18.0 | 17.0 | 14.8 | 15.7 | 18.4 | 23.7 | 26.6 | 17.6 | 21.2 | 16.9 | - | |
| 112 | 459873 | 451684 | 23.4 | 26.6 | 18.6 | 15.9 | 16.1 | 16.2 | 15.8 | 14.0 | 14.0 | 22.8 | 26.9 | 9.7 | 18.3 | 14.7 | - | |
| 114 | 459981 | 451778 | 34.6 | 33.6 | 30.2 | 24.3 | 27.1 | 23.5 | 22.7 | 17.2 | 18.7 | 29.7 | 36.5 | 32.6 | 27.6 | 22.0 | - | |
| 115 | 459962 | 451771 | 54.5 | 56.3 | 48.7 | 27.8 | 26.4 | 29.8 | 27.4 | 28.4 | 22.0 | 32.4 | 33.3 | 32.4 | 35.0 | 28.0 | - | |
| 116 | 458212 | 452037 | 26.9 | 30.7 | 21.4 | 13.4 | 20.8 | 18.9 | 20.9 | 16.2 | 16.5 | 25.6 | 31.9 | 13.5 | 21.4 | 17.1 | - | |
| 125 | 463194 | 451967 | 16.5 | 18.4 | 11.2 | 8.7 | 8.4 | 7.1 | 6.0 | 8.7 | 4.8 | 13.9 | 8.3 | 12.8 | 10.4 | 8.3 | - | |
| 126 | 463482 | 451896 | 18.6 | 21.1 | 12.6 | 11.5 | 9.8 | 7.3 | 7.5 | 8.3 | 6.1 | 14.7 | 19.8 | 11.4 | 12.4 | 9.9 | - | |
| 127 | 461108 | 452313 | 28.7 | 31.7 | 22.9 | 17.2 | 16.8 | 18.5 | 16.8 | 17.6 | 13.2 | 22.8 | 29.2 | 17.2 | 21.1 | 16.8 | - | |
| 128 | 458686 | 452369 | 21.2 | 19.7 | 19.5 | 12.4 | 14.3 | 9.5 | 12.5 | | 7.7 | 22.3 | 24.2 | 16.7 | 16.4 | 13.1 | - | |
| 129 | 455968 | 453397 | | 18.3 | | | 10.6 | 8.5 | 10.3 | 11.4 | 6.5 | 16.5 | 18.3 | 12.1 | 12.5 | 10.0 | - | |
| 130 | 463663 | 451054 | 12.7 | | | 8.1 | | 5.8 | 6.1 | 7.2 | 6.0 | 13 | 17.1 | 3.4 | 8.8 | 7.1 | - | |
| 2a | 460746 | 451034 | 22.8 | 29.1 | 19.9 | 18.7 | 20.7 | 16.3 | 16.5 | 15.5 | 19.0 | 24.9 | 31.8 | 23.3 | 21.5 | 17.2 | - | Part of triplicate set - see bottom of table for triplicate average |
| 2b | 460746 | 451034 | 28.3 | 28.8 | 23.1 | 18.2 | 20.7 | 16.4 | 16.5 | 14.6 | 23.5 | 27.6 | 31.7 | 21.7 | 22.6 | 18.1 | - | Part of triplicate set - see bottom of table for triplicate average |
| 2c | 460746 | 451034 | 28.1 | 30.7 | 23.7 | 15.4 | 22.6 | 15.9 | 16.8 | 15.9 | 22.1 | 27.6 | | 16.6 | 21.4 | 17.1 | - | Part of triplicate set - see bottom of table for triplicate average |
| 3a | 460024 | 452767 | 21.6 | 20.3 | 11.7 | 9.9 | 9.4 | 9.0 | | 10.6 | 8.5 | 12 | 23.3 | | 13.6 | 10.9 | - | Part of triplicate set - see bottom of table for triplicate average |
| 3b | 460024 | 452767 | 16.3 | 21.4 | 14.3 | 10.5 | 10.1 | 9.0 | | 8.7 | 5.3 | 17.3 | 23.7 | 8.1 | 13.2 | 10.5 | - | Part of triplicate set - see bottom of table for triplicate average |
| 3c | 460024 | 452767 | 14.5 | 19.1 | 13.5 | 9.8 | 9.5 | 9.3 | 8.6 | 11.7 | 6.4 | 16.7 | 8 | 5.3 | 11.0 | 8.8 | - | Part of triplicate set - see bottom of table for triplicate average |
| 95a | 460938 | 449465 | 21.5 | 24.4 | 18.1 | 17.3 | 16.7 | 16.7 | 15.0 | 15.7 | 18.0 | 22 | 28.1 | | 19.4 | 15.5 | - | Part of triplicate set - see bottom of table for triplicate average |
| 95b | 460938 | 449465 | 22.6 | 20.9 | 16.3 | 17.7 | 17.6 | 17.5 | 16.5 | | 17.2 | 21 | 28.6 | 18.3 | 19.5 | 15.6 | - | Part of triplicate set - see bottom of table for triplicate average |
| 95c | 460938 | 449465 | 24.2 | 22.8 | 18.3 | 18.7 | 17.1 | 17.4 | 14.4 | 14.7 | 14.9 | 21.5 | 26.3 | | 19.1 | 15.3 | - | Part of triplicate set - see bottom of table for triplicate average |

| DT ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual Mean: Raw Data | Annual Mean: Annualised and Bias Adjusted (0.8) | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|-------|-------------------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|---|---|---|
| 9a | 460163 | 452468 | 18.5 | 22.9 | 16.0 | 9.9 | 11.5 | 9.4 | 9.9 | 10.7 | 8.3 | 18 | 18.7 | 14.2 | 14.0 | 11.2 | - | Part of triplicate set - see bottom of table for triplicate average |
| A1 | 460088 | 452263 | 38.3 | 50.3 | 41.1 | 41.9 | 42.6 | 24.3 | 39.2 | 36.4 | 38.0 | 36 | 40.7 | 37.6 | 38.9 | 31.1 | - | |
| A11 | 459341 | 453042 | 39.8 | | 30.4 | 28.7 | 27.1 | 27.6 | 26.0 | 25.2 | 23.4 | 33.5 | 37.2 | 21 | 29.1 | 23.3 | - | |
| A12 | 459251 | 453008 | 34.5 | 29.5 | 24.9 | 21.4 | 23.1 | 20.4 | 21.5 | 22.8 | 21.3 | 21.4 | 30 | 24.3 | 24.6 | 19.7 | - | |
| A13 | 459335 | 452931 | 18.4 | 22.6 | 14.4 | 11.9 | 11.8 | 9.0 | 10.2 | 8.9 | 10.8 | 18.8 | 15.3 | 12.8 | 13.7 | 11.0 | - | Part of triplicate set - see bottom of table for triplicate average |
| A14 | 459335 | 452931 | 21.0 | 22.0 | 14.4 | 12.5 | 12.2 | 8.6 | 10.3 | 10.3 | 9.5 | 16.8 | 23.7 | 16.7 | 14.8 | 11.9 | - | Part of triplicate set - see bottom of table for triplicate average |
| A14a | 459335 | 452931 | 20.1 | 23.4 | 12.9 | 12.9 | 14.1 | 8.7 | 10.6 | 12.1 | 9.4 | 7.3 | 19.6 | 10.2 | 13.4 | 10.8 | - | Part of triplicate set - see bottom of table for triplicate average |
| A17 | 458578 | 452472 | 19.3 | 36.5 | 29.0 | 18.8 | 22.1 | 15.7 | 20.4 | 18.7 | 18.3 | 27.6 | 29.9 | 23.6 | 23.3 | 18.7 | - | |
| A19 | 458713 | 452414 | 29.5 | 31.4 | 25.9 | 16.0 | 19.3 | 16.1 | 18.6 | 13.4 | 13.5 | 24.9 | 29.2 | 18.8 | 21.4 | 17.1 | - | Part of triplicate set - see bottom of table for triplicate average |
| A19a | 458713 | 452414 | 32.9 | 32.3 | 26.1 | 19.4 | 19.5 | 17.2 | 17.6 | 18.0 | 12.8 | 27.1 | 28.5 | 18.7 | 22.5 | 18.0 | - | Part of triplicate set - see bottom of table for triplicate average |
| A19b | 458713 | 452414 | 34.6 | 34.0 | 26.7 | 19.8 | 21.3 | 17.1 | 17.7 | 17.4 | 13.5 | 28.4 | 28.7 | 21.9 | 23.4 | 18.7 | - | Part of triplicate set - see bottom of table for triplicate average |
| A2 | 459917 | 452405 | 29.5 | 37.2 | 27.5 | 20.7 | 23.9 | 27.3 | 25.8 | 22.7 | 14.6 | 31.6 | 34.1 | 28.3 | 26.9 | 21.5 | - | |
| A20 | 458760 | 452404 | 38.5 | 30.6 | 28.5 | 20.4 | 23.8 | 16.7 | 18.3 | 15.6 | 21.3 | 26.3 | 28.7 | 11 | 23.3 | 18.6 | - | Part of triplicate set - see bottom of table for triplicate average |
| A20a | 458760 | 452404 | 35.5 | 31.2 | 25.3 | 21.7 | 23.4 | 17.0 | 18.6 | 15.1 | 20.0 | 29.3 | 33.1 | 24.8 | 24.6 | 19.7 | - | Part of triplicate set - see bottom of table for triplicate average |
| A20b | 458760 | 452404 | 39.6 | 33.0 | 26.7 | 21.1 | 23.8 | 16.8 | 18.4 | 16.6 | 16.3 | 28.2 | 31 | 23.1 | 24.6 | 19.6 | - | Part of triplicate set - see bottom of table for triplicate average |
| A21 | 458806 | 452326 | 23.5 | 17.2 | 20.2 | 13.2 | 15.0 | 12.7 | 13.4 | 15.4 | 7.7 | 26.5 | 23.5 | 13.9 | 16.9 | 13.5 | - | |
| A22 | 458792 | 452242 | 24.8 | 24.4 | 21.8 | 15.9 | 16.6 | 15.1 | 15.8 | 17.8 | 10.5 | 23.9 | 26.1 | 12.4 | 18.8 | 15.0 | - | |
| A25 | 458706 | 452225 | 25.8 | 21.1 | 22.1 | 16.9 | 19.9 | 14.9 | 15.9 | 12.0 | 14.4 | 27.5 | 27.8 | 14.3 | 19.4 | 15.5 | - | |
| A29 | 456939 | 453013 | 19.9 | 25.7 | 19.7 | 14.4 | 15.8 | 12.6 | 12.7 | 12.3 | | 20.5 | 21.8 | 14.3 | 17.2 | 13.8 | - | |
| A3 | 459822 | 452492 | 32.2 | 32.9 | 20.0 | 22.7 | 25.6 | 21.4 | 23.4 | 22.4 | 19.2 | 33.6 | 34.2 | | 26.1 | 20.9 | - | |
| A30 | 457060 | 452888 | 22.2 | 20.2 | 17.7 | 12.9 | 16.3 | 9.1 | 12.2 | 8.6 | 3.8 | 18.9 | 22.7 | 13.7 | 14.9 | 11.9 | - | |
| A36 | 457625 | 452446 | 17.7 | 19.9 | | | | 8.3 | 10.7 | 9.9 | 9.7 | 19 | 17.4 | | 14.1 | 10.8 | - | Annualised value |
| A38 | 457857 | 452334 | 20.9 | 20.9 | 15.5 | 11.6 | 12.6 | 9.4 | 10.1 | 9.2 | 9.3 | 16.7 | 14.5 | 13.7 | 13.7 | 11.0 | - | |
| A4 | 459699 | 452638 | 23.7 | 25.3 | 16.3 | 12.9 | 13.5 | 13.2 | 14.6 | 17.9 | | 21.9 | 22.6 | 16.9 | 18.1 | 14.5 | - | |
| A40 | 458109 | 452196 | 20.5 | 22.2 | 20.4 | 13.2 | 17.9 | 11.5 | 13.1 | 12.6 | 9.0 | 22.2 | 22.2 | 13 | 16.5 | 13.2 | - | |
| A41 | 458172 | 452108 | 24.2 | 23.2 | 20.8 | 15.2 | 19.4 | 11.9 | 13.7 | 10.2 | 14.6 | 22.1 | 24.3 | 18.3 | 18.2 | 14.5 | - | |
| A45 | 458384 | 451817 | 18.5 | 19.5 | 13.8 | 10.1 | 11.6 | 7.8 | 8.8 | 8.9 | 8.9 | 19.1 | 20.5 | 12.2 | 13.3 | 10.6 | - | |
| A50 | 458732 | 451393 | 29.5 | 28.8 | 19.9 | 17.7 | 19.7 | 17.3 | 18.1 | 16.9 | 19.2 | 22.7 | 18.4 | 22.9 | 20.9 | 16.7 | - | |
| A51 | 458827 | 451348 | 21.4 | 28.8 | 11.3 | 13.3 | 13.8 | 15.1 | 13.0 | 13.7 | 12.5 | 23.7 | 21.6 | 6.8 | 16.3 | 13.0 | - | |
| A52 | 458945 | 451254 | 36.6 | 37.4 | 33.1 | 23.5 | 23.7 | 20.2 | 19.8 | 22.3 | 8.4 | 32.9 | 37.4 | 29.7 | 27.1 | 21.7 | - | |

| DT ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual Mean: Raw Data | Annual Mean: Annualised and Bias Adjusted (0.8) | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|-------|-------------------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|---|---|---|
| A53 | 459066 | 451239 | 30.1 | 36.6 | 28.2 | 23.1 | 21.0 | 22.2 | 21.8 | 23.8 | 18.6 | 29.4 | 33.2 | 21.6 | 25.8 | 20.6 | - | |
| A54 | 459254 | 451223 | | | 27.3 | 24.1 | 27.9 | 32.0 | 26.7 | 24.4 | 30.1 | | 36.9 | | 28.7 | 26.0 | - | Annualised value |
| A55 | 459351 | 451221 | 32.1 | 36.0 | 25.8 | 22.5 | 19.9 | 20.9 | 21.9 | 19.5 | 20.7 | 29.3 | 31.8 | 14.1 | 24.5 | 19.6 | - | |
| A56 | 459470 | 451268 | 31.0 | 27.6 | 21.7 | 19.4 | | 15.6 | 17.7 | | | | | | 22.2 | 17.2 | - | Annualised value |
| A57 | 459533 | 451280 | 38.6 | 40.4 | 40.5 | 34.3 | 37.5 | 30.8 | 33.4 | 25.2 | 42.0 | 41.6 | 46 | 33.5 | 37.0 | 29.6 | - | |
| A6 | 459536 | 452811 | 29.2 | 30.4 | 17.8 | 15.6 | 14.8 | 19.0 | 17.3 | 20.5 | 13.1 | 26.2 | 30.5 | 19.5 | 21.2 | 16.9 | - | |
| A60 | 458906 | 453276 | 17.3 | 18.1 | 13.2 | 10.1 | 12.0 | 8.4 | | 7.5 | 9.5 | 14.1 | 18.5 | 11.9 | 12.8 | 10.2 | - | |
| A62 | 458806 | 453483 | | | 11.9 | | 9.0 | 8.4 | 9.7 | 10.4 | 5.6 | 14.6 | 20 | 8.8 | 10.9 | 8.7 | - | |
| A64 | 460030 | 452327 | 34.0 | 31.5 | 28.1 | 27.0 | 28.1 | 20.6 | 23.4 | 19.5 | 27.9 | 30 | 23.2 | 20.5 | 26.2 | 20.9 | - | |
| A66 | 458672 | 453685 | | 19.2 | 15.3 | 9.1 | 9.9 | 8.9 | 9.4 | 9.4 | 6.9 | 15.8 | 19.4 | | 12.3 | 9.9 | - | |
| A69 | 458375 | 453958 | 18.1 | 13.0 | 14.2 | 8.0 | 10.4 | 5.9 | 9.3 | 8.8 | 6.4 | | 18.4 | 12.5 | 11.4 | 9.1 | - | |
| A7 | 459441 | 452892 | 27.1 | 30.1 | 23.5 | 19.2 | 17.2 | 19.4 | 18.2 | 19.2 | 12.7 | 27.2 | 21.6 | 15.4 | 20.9 | 16.7 | - | |
| A70 | 458299 | 454070 | 19.9 | 19.7 | 14.2 | 12.0 | 10.9 | 11.3 | 10.4 | 11.0 | 9.9 | 18.4 | 21.2 | 17.8 | 14.7 | 11.8 | - | |
| A71 | 458121 | 454254 | 16.5 | 18.2 | 11.8 | 8.4 | 8.9 | 7.2 | 8.0 | 9.1 | 6.1 | 15.5 | 17.2 | 13.6 | 11.7 | 9.4 | - | |
| A74 | 458041 | 454371 | 16.3 | 18.4 | 11.2 | 7.7 | 9.4 | | 7.9 | 9.5 | 5.6 | 12.5 | 18.7 | 11.6 | 11.7 | 9.4 | - | |
| A77 | 457929 | 454537 | 15.7 | 21.3 | 13.6 | 11.8 | 11.7 | 9.7 | 12.7 | 11.8 | 8.9 | 17.6 | 23.8 | 16.4 | 14.6 | 11.7 | - | |
| A81 | 457733 | 454805 | 19.6 | 19.2 | | 10.8 | 9.8 | | 11.0 | 10.2 | 8.5 | 16.2 | 22 | 10.6 | 13.8 | 11.0 | - | |
| A85 | 459364 | 453009 | 23.9 | 23.1 | 17.2 | 12.7 | 14.5 | 15.2 | 15.9 | 14.0 | 6.8 | 20.9 | 24.8 | 17.6 | 17.2 | 13.8 | - | |
| A88 | 457470 | 452550 | 18.8 | 22.8 | 16.5 | 11.2 | 12.7 | 9.8 | 10.0 | 9.3 | 8.5 | 16.1 | 20 | 13.6 | 14.1 | 11.3 | - | |
| A9 | 459295 | 453067 | 8.1 | 33.0 | 25.2 | 17.7 | 24.3 | 21.2 | 20.4 | 19.0 | 20.4 | 23.8 | 30.9 | 22.4 | 22.2 | 17.8 | - | |
| A90 | 459238 | 453157 | 39.5 | 35.2 | 27.8 | 27.5 | 24.5 | 24.4 | 24.8 | 26.8 | 20.1 | 29.5 | 32.7 | 29.3 | 28.5 | 22.8 | - | |
| A94 | 458651 | 452426 | 45.0 | 35.2 | 29.8 | 22.5 | 29.7 | 18.1 | 26.8 | 17.8 | 28.2 | 37.9 | 42 | 31.3 | 30.4 | 24.3 | - | |
| A96 | 459038 | 452850 | 30.7 | 27.2 | 25.6 | 22.8 | 22.8 | | 17.8 | 19.4 | 23.6 | 27.2 | 33.1 | 19 | 24.5 | 19.6 | - | |
| A97 | 457431 | 452616 | 22.2 | 20.9 | 18.3 | 11.8 | 14.9 | 10.4 | 12.1 | 12.3 | 11.2 | 22.3 | 25.2 | 19.3 | 16.7 | 13.4 | - | |
| A98 | 458666 | 451468 | 2.1 | 27.9 | 20.6 | 15.9 | 16.0 | 13.8 | 14.8 | 14.1 | 11.8 | 23.5 | 16.9 | 20.2 | 16.5 | 13.2 | - | |
| B1 | 460848 | 452582 | | 25.8 | 17.1 | 15.1 | 14.0 | 10.5 | 14.0 | 13.8 | 9.6 | 20.9 | 23.4 | 17.7 | 16.5 | 13.2 | - | |
| B15 | 461294 | 455305 | 20.5 | 17.7 | 14.3 | 12.2 | 11.9 | 12.4 | 11.6 | 12.4 | 8.7 | 16.6 | 21.8 | 14.1 | 14.5 | 11.6 | - | |
| B19 | 461891 | 455876 | | 22.1 | 15.1 | 13.8 | 12.9 | 11.7 | 12.3 | 11.8 | 10.2 | 9.1 | 20.8 | 15.7 | 14.1 | 11.3 | - | |
| B2 | 460924 | 452697 | 28.5 | 28.6 | 21.7 | 15.7 | 17.9 | 14.7 | 13.5 | 14.3 | 14.5 | 25.1 | 32.1 | 24.5 | 20.9 | 16.7 | - | |
| B29 | 461453 | 452750 | 22.2 | 23.2 | 15.9 | 12.7 | 13.3 | | 10.1 | 13.5 | 10.0 | 19.7 | 24.5 | 12.1 | 16.1 | 12.9 | - | |
| B3 | 460952 | 452826 | 24.7 | 26.8 | 22.4 | 13.2 | 16.6 | 12.9 | 14.7 | 14.1 | 13.9 | | 27.5 | 10.1 | 17.9 | 14.3 | - | |
| B36 | 462565 | 454194 | 17.5 | 17.9 | 11.7 | 9.8 | 9.0 | 8.8 | 8.6 | 8.4 | 4.9 | 12 | 16.5 | 17.4 | 11.9 | 9.5 | - | Part of triplicate set - see bottom of table for triplicate average |
| B37 | 462565 | 454194 | 16.5 | 14.0 | 10.2 | | 9.8 | | 8.4 | 7.3 | 6.6 | | 18 | 15 | 11.8 | 9.4 | - | Part of triplicate set - see bottom of table for triplicate average |
| B37a | 462565 | 454194 | | 17.8 | 10.3 | 9.4 | 9.6 | 8.4 | 8.7 | 9.7 | 6.9 | 13.4 | 16.3 | | 11.1 | 8.8 | - | Part of triplicate set - see bottom of table for triplicate average |
| B38 | 463757 | 455155 | 17.3 | 19.8 | 15.7 | 12.9 | 11.7 | 9.1 | 10.4 | 9.0 | 10.3 | 36.6 | 18.2 | 15.8 | 15.6 | 12.5 | - | |
| B41 | 461326 | 451330 | | 33.4 | 23.8 | 21.3 | 21.1 | 20.9 | 19.0 | 18.8 | 16.0 | 25.1 | 29 | 23.3 | 22.9 | 18.3 | - | |
| B42 | 461430 | 451348 | 23.9 | 23.7 | 17.3 | 16.0 | 16.7 | 13.5 | 12.8 | 11.7 | 16.6 | 19.2 | 22 | 13.4 | 17.2 | 13.8 | - | |
| B43 | 461557 | 451343 | 19.2 | 19.8 | 16.5 | 13.9 | 16.7 | 11.4 | 12.0 | 9.2 | | 19.3 | 20.2 | 16.8 | 15.9 | 12.7 | - | |
| B44 | 461643 | 451343 | 24.9 | 27.9 | 24.2 | 21.4 | 22.9 | 19.5 | 18.5 | 17.6 | 20.5 | 24 | 24.4 | 21.8 | 22.3 | 17.8 | - | |
| B45 | 461849 | 451284 | 30.0 | 28.8 | 22.4 | 19.7 | 19.7 | 16.6 | 18.5 | 14.9 | 16.5 | 21 | 25.6 | | 21.2 | 17.0 | - | |

| DT ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual Mean: Raw Data | Annual Mean: Annualised and Bias Adjusted (0.8) | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|-------|-------------------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|---|---|------------------|
| B47 | 462019 | 451289 | 16.0 | 18.9 | 10.8 | 9.6 | 10.1 | 9.2 | 8.4 | 9.3 | 6.0 | 15.6 | 21.1 | 14.6 | 12.5 | 10.0 | - | |
| B48 | 462122 | 451289 | | 21.2 | 14.2 | 12.5 | 13.5 | 11.1 | 10.4 | 10.5 | 9.0 | 18.4 | 21.8 | | 14.3 | 11.4 | - | |
| B50 | 462291 | 451269 | 20.2 | 24.1 | 20.1 | 15.4 | 15.1 | 12.4 | 13.2 | 12.2 | 10.7 | 20.5 | 24.4 | | 17.1 | 13.7 | - | |
| B51 | 462384 | 451298 | 16.9 | 15.4 | 13.7 | 10.0 | 10.7 | 8.9 | 9.5 | 10.7 | 5.3 | 17 | 21.6 | 12.9 | 12.7 | 10.2 | - | |
| B56 | 462888 | 451289 | 29.2 | 26.3 | 23.3 | 27.1 | 21.8 | 19.8 | 19.5 | 15.3 | 19.0 | 25.4 | 32.2 | 18.1 | 23.1 | 18.5 | - | |
| B58 | 462970 | 451300 | 19.5 | 20.1 | 12.0 | 14.3 | | 10.3 | 11.0 | 10.1 | 10.1 | 17.9 | 19.7 | 5.8 | 13.7 | 11.0 | - | |
| B60 | 463234 | 451339 | 19.4 | 25.4 | 14.7 | 10.6 | 10.8 | 10.8 | 10.9 | 11.1 | 6.0 | 17.8 | 23.2 | 16.5 | 14.8 | 11.8 | - | |
| B63 | 462704 | 451300 | 30.3 | 31.3 | 26.2 | 25.3 | 21.8 | 21.3 | 23.3 | 19.3 | 15.3 | 26.5 | 29.8 | 23.3 | 24.5 | 19.6 | - | |
| B72 | 461122 | 451374 | | 53.2 | 37.0 | 33.0 | | 34.8 | | 33.6 | | 39.7 | 42 | 20.2 | 36.7 | 28.1 | - | Annualised value |
| B74 | 461371 | 452708 | 19.4 | 22.6 | 15.0 | 11.7 | 13.9 | 12.5 | 10.5 | 11.7 | 10.5 | 18.1 | 21.2 | 7.1 | 14.5 | 11.6 | - | |
| B80 | 461185 | 452663 | 17.9 | 18.1 | 12.9 | 10.7 | 10.7 | 10.0 | 10.6 | 11.8 | 8.1 | 16.3 | 13.2 | 4.4 | 12.1 | 9.6 | - | |
| B82 | 460974 | 452563 | 16.9 | 26.7 | 17.3 | 13.7 | 16.3 | 17.0 | 17.5 | 15.6 | 10.1 | 19.7 | 26.3 | 17.5 | 17.9 | 14.3 | - | |
| B83 | 461285 | 452695 | 26.8 | 34.7 | 23.5 | 20.2 | 21.5 | 17.5 | 18.7 | 17.6 | 17.2 | 24.4 | 32.3 | 23.5 | 23.2 | 18.5 | - | |
| B84 | 462654 | 451293 | 20.8 | 26.4 | 19.8 | 16.9 | 16.6 | 15.5 | 14.3 | 15.5 | 9.2 | 21.9 | 19.6 | 16.6 | 17.8 | 14.2 | - | |
| B85 | 461227 | 451368 | 32.7 | 33.1 | 26.0 | 22.9 | 25.0 | 18.0 | 21.3 | | 18.8 | 26.8 | 28.1 | 13.7 | 24.2 | 19.4 | - | |
| B86 | 461116 | 452602 | 26.4 | 27.9 | 18.9 | 15.7 | 14.7 | 14.0 | 16.1 | 15.0 | 13.0 | 20.9 | 28.4 | 20.3 | 19.3 | 15.4 | - | |
| B88 | 462799 | 451291 | | 34.8 | 22.2 | 21.2 | 19.0 | 15.7 | 17.1 | 13.9 | 16.1 | 23.9 | 27.1 | 22 | 21.2 | 16.9 | - | |
| B91 | 461142 | 451365 | 36.9 | 41.9 | 32.1 | 28.0 | 26.7 | 29.1 | 28.6 | 29.0 | 22.1 | 22.8 | 37 | 26.3 | 30.0 | 24.0 | - | |
| B90 | 461133 | 451394 | 36.1 | 31.4 | 25.7 | 27.3 | 27.5 | 22.8 | 21.7 | 21.0 | 27.6 | 26.6 | 32.6 | 16 | 26.4 | 21.1 | - | |
| C12 | 458825 | 449928 | 19.1 | 21.0 | 14.9 | 12.2 | 11.7 | | 8.8 | 10.0 | 9.8 | 16.3 | 21.2 | | 14.5 | 11.6 | - | |
| C17 | 459085 | 450544 | 19.2 | 18.4 | 11.8 | 10.7 | 11.5 | 9.5 | | 6.3 | 8.7 | 15.3 | 20.2 | 13.1 | 13.2 | 10.5 | - | |
| C18 | 459204 | 450772 | 24.7 | 25.7 | 16.5 | 16.1 | 16.0 | 14.6 | 15.1 | 14.6 | 14.8 | 23.1 | 25 | 18.6 | 18.7 | 15.0 | - | |
| C19 | 459271 | 450819 | 20.8 | 19.0 | 10.6 | 12.0 | 12.5 | 11.2 | 11.8 | 10.5 | 13.1 | 16.7 | 17.5 | 10.2 | 13.8 | 11.1 | - | |
| C2 | 458333 | 448974 | 30.9 | 32.9 | 23.9 | 20.3 | 21.7 | 22.5 | 22.6 | 19.9 | 20.1 | 19.1 | 23.1 | 17.8 | 22.9 | 18.3 | - | |
| C20 | 459280 | 450923 | 21.7 | 22.0 | 16.0 | 13.8 | 15.7 | 12.5 | 14.5 | 12.7 | 14.0 | 14.4 | 13.7 | 12.1 | 15.3 | 12.2 | - | |
| C21 | 459410 | 451040 | 28.3 | 7.7 | 15.6 | 20.0 | 18.3 | 17.8 | 16.3 | 15.1 | 18.9 | 21.9 | 19.3 | 15.6 | 17.9 | 14.3 | - | |
| C22 | 459570 | 451195 | 25.3 | 18.3 | 13.9 | 16.1 | 15.9 | 13.1 | 13.6 | 13.5 | | 17.5 | 26.5 | 20.3 | 17.6 | 14.1 | - | |
| C23 | 459553 | 451252 | | 31.6 | 24.6 | 28.8 | 28.9 | 26.5 | 25.1 | 21.4 | 30.2 | 30.5 | 37.9 | 15.3 | 27.3 | 21.9 | - | |
| C26 | 459639 | 451334 | 40.3 | 38.4 | 31.7 | 27.8 | 29.1 | 25.7 | 26.1 | 24.7 | 28.2 | 29.7 | 29.2 | 9.7 | 28.4 | 22.7 | - | |
| C27 | 459717 | 451433 | 45.8 | 50.0 | 37.9 | 39.1 | 40.8 | 38.7 | 36.0 | 31.9 | | 40.7 | 44.8 | 40 | 40.5 | 32.4 | - | |
| C28 | 461201 | 448386 | 14.3 | 17.9 | 12.1 | 9.5 | 11.1 | 8.3 | 7.0 | 10.2 | 8.6 | 12.5 | 19.1 | | 11.9 | 9.5 | - | |
| C29 | 461196 | 448426 | 22.1 | 28.0 | 24.1 | 19.3 | 18.4 | 16.0 | 19.0 | 20.8 | 18.4 | 30 | 30 | 21.9 | 22.3 | 17.9 | - | |
| C30 | 461185 | 448462 | 25.5 | 35.1 | 28.2 | 23.2 | 26.0 | 22.4 | 21.9 | 19.6 | 22.7 | 24.7 | 35.7 | 19 | 25.3 | 20.3 | - | |
| C31 | 461193 | 448473 | 19.1 | 17.9 | 16.1 | 12.2 | 12.4 | 12.4 | 13.4 | 14.3 | 8.1 | 19.1 | 22.9 | 5.2 | 14.4 | 11.5 | - | |
| C32 | 461128 | 448823 | 25.6 | 23.0 | 19.6 | 18.2 | 16.6 | | 13.7 | 13.6 | 15.6 | | 30 | 15.5 | 19.1 | 15.3 | - | |
| C33 | 461085 | 448933 | 16.1 | 18.6 | 14.7 | 10.7 | 12.2 | 8.5 | 7.9 | 9.2 | 8.0 | 16.9 | 18.5 | 15.2 | 13.0 | 10.4 | - | |
| C34 | 461085 | 449067 | 22.2 | 24.1 | 25.9 | 16.5 | 18.6 | 12.6 | 15.0 | 10.3 | 20.7 | 22.3 | 20.1 | 16.2 | 18.7 | 15.0 | - | |
| C36 | 461052 | 449146 | 28.2 | 28.1 | 23.9 | 21.9 | 19.7 | 20.7 | 18.7 | 20.4 | 18.4 | 27.6 | 30 | 25.9 | 23.6 | 18.9 | - | |
| C37 | 461045 | 449223 | 19.6 | 24.6 | 19.5 | 15.8 | 16.1 | 12.2 | 11.5 | 12.4 | 12.8 | 22.8 | 27 | | 17.7 | 14.1 | - | |
| C38 | 461038 | 449225 | 24.0 | 28.7 | 25.0 | 18.0 | 18.3 | 14.2 | 14.3 | 11.6 | 15.1 | 19.9 | 28.6 | 17.9 | 19.6 | 15.7 | - | |
| C39 | 460974 | 449336 | 36.3 | 38.2 | 25.0 | 21.3 | 24.0 | 22.3 | 22.6 | 18.4 | 23.2 | 34.2 | 38.3 | 27.1 | 27.6 | 22.1 | - | |
| C4 | 458470 | 449126 | 19.0 | 17.6 | 12.8 | 11.3 | 11.3 | 10.0 | 9.5 | 10.3 | 10.1 | 14.2 | 19.8 | 15.1 | 13.4 | 10.7 | - | |
| C40 | 460910 | 449628 | 21.3 | 22.8 | 17.7 | 12.7 | 14.6 | 13.3 | 13.6 | 13.6 | 12.5 | 21.4 | 24.2 | 11.1 | 16.6 | 13.3 | - | |
| C42 | 460857 | 449748 | 23.9 | 25.2 | 17.5 | 16.5 | 14.8 | 17.0 | 11.2 | 14.5 | 13.3 | 15.9 | 24 | 19.9 | 17.8 | 14.2 | - | |

| DT ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual Mean: Raw Data | Annual Mean: Annualised and Bias Adjusted (0.8) | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|-------|-------------------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|---|---|---|
| C43 | 460869 | 449730 | 27.5 | 31.3 | 24.3 | 20.2 | 19.2 | 20.8 | 20.9 | 19.9 | 21.9 | 13.4 | 33.7 | 24.5 | 23.1 | 18.5 | - | Part of triplicate set - see bottom of table for triplicate average |
| C43a | 460869 | 449730 | 31.9 | 30.3 | 23.4 | 19.6 | 18.6 | | 19.0 | 17.9 | 20.3 | 28 | 33 | 23.3 | 24.1 | 19.3 | - | Part of triplicate set - see bottom of table for triplicate average |
| C44 | 460869 | 449730 | 31.6 | 16.5 | 26.0 | 22.0 | 21.7 | 20.8 | 17.0 | 16.2 | 20.1 | 27.3 | 32.7 | 27.4 | 23.3 | 18.6 | - | Part of triplicate set - see bottom of table for triplicate average |
| C49 | 460860 | 450530 | | 22.5 | 17.5 | 13.2 | 14.3 | 8.2 | 10.2 | 8.1 | 13.5 | 18.4 | 20.8 | 15.1 | 14.7 | 11.8 | - | |
| C51 | 460871 | 450727 | | 28.1 | 25.0 | 16.7 | 16.1 | 13.2 | 15.4 | 14.9 | 24.3 | 25.4 | 28.8 | 10.3 | 19.8 | 15.9 | - | |
| C52 | 460853 | 450781 | 26.0 | 25.6 | 21.4 | 13.2 | 13.3 | 12.9 | 13.4 | 12.6 | 13.1 | 24.4 | 30.9 | 4.3 | 17.6 | 14.1 | - | |
| C53 | 460766 | 450924 | | | 16.1 | | | | | | | | 23.5 | | 19.8 | 15.8 | - | |
| C54 | 460762 | 451069 | 30.2 | 33.2 | 22.0 | 19.4 | 23.6 | 16.8 | 19.0 | 16.4 | 26.9 | 27.9 | 33.3 | 10.5 | 23.3 | 18.6 | - | |
| C56 | 459484 | 451141 | | 33.6 | 25.3 | 22.9 | 22.0 | 19.2 | 20.1 | 16.9 | | 19.2 | 33.6 | 12.8 | 22.6 | 18.0 | - | |
| C57 | 458912 | 450111 | 21.3 | 22.5 | 16.7 | 13.2 | 14.1 | 11.8 | 13.2 | 13.1 | 10.4 | 19.9 | 23.5 | 3.7 | 15.3 | 12.2 | - | |
| C58 | 460926 | 449429 | 37.0 | 39.2 | 27.6 | 22.4 | 25.9 | 29.5 | 26.4 | 25.2 | 24.7 | 30.6 | 39.2 | 30.2 | 29.8 | 23.9 | - | |
| C59 | 458735 | 449713 | 29.4 | 28.4 | 22.9 | 19.0 | 21.2 | 18.8 | 19.6 | 18.6 | 16.2 | 26.7 | 29.3 | 13.7 | 22.0 | 17.6 | - | |
| C62 | 459579 | 451251 | | 28.2 | 19.7 | 17.3 | 20.7 | 18.3 | 16.0 | 17.4 | 21.3 | 20.9 | 28.8 | 20.1 | 20.8 | 16.6 | - | |
| C63 | 458790 | 449740 | 20.2 | 20.3 | 12.6 | 12.9 | 12.1 | 10.8 | 9.3 | 11.1 | 11.9 | 14.4 | 10.6 | 13.8 | 13.3 | 10.7 | - | |
| C7 | 458611 | 449477 | 20.0 | 20.6 | 14.4 | 12.2 | 13.6 | 10.6 | 10.6 | 11.2 | 10.8 | 19.1 | 22.8 | | 15.1 | 12.1 | - | |
| D10 | 460443 | 451927 | 19.5 | 19.3 | 14.4 | 10.8 | 12.0 | 10.2 | 11.9 | | 8.8 | 19.2 | 24 | 20.7 | 15.5 | 12.4 | - | |
| D12 | 460567 | 451740 | 9.9 | 21.0 | 14.0 | 9.3 | 11.9 | | 10.5 | 9.8 | 9.8 | 16.2 | 22.1 | 18.6 | 13.9 | 11.1 | - | |
| D13 | 460271 | 451358 | 24.4 | 9.8 | 18.4 | 15.7 | 14.4 | 13.4 | 13.7 | 12.0 | 13.6 | 22.8 | 25.4 | 15.2 | 16.6 | 13.3 | - | |
| D14 | 461077 | 451354 | 34.8 | 38.0 | 37.0 | 27.3 | 34.4 | 28.7 | 28.9 | 28.5 | 29.9 | 38.9 | 30.1 | 32.1 | 32.4 | 25.9 | - | |
| D16 | 460708 | 451231 | 40.8 | 34.0 | 36.6 | 26.3 | 36.0 | 25.4 | 27.1 | 22.4 | 38.8 | 39 | 38 | 16.1 | 31.7 | 25.4 | - | |
| D17 | 460575 | 451616 | 36.0 | 37.3 | 29.0 | 22.2 | | 21.5 | 20.6 | 20.5 | 17.4 | 28.4 | 22.5 | 25.1 | 25.5 | 20.4 | - | |
| D18 | 460395 | 451502 | 35.2 | | | 19.5 | 19.0 | 16.2 | 16.4 | 15.8 | | 24.9 | 33.9 | 23.9 | 22.8 | 18.2 | - | |
| D19 | 460038 | 451626 | 36.9 | 41.6 | 34.8 | 28.0 | 29.1 | 25.8 | 24.8 | 24.5 | 27.6 | 35.1 | 18.4 | 30.8 | 29.8 | 23.8 | - | |
| D20 | 460323 | 451685 | 40.5 | 16.7 | 36.0 | 21.1 | 27.7 | 23.3 | 23.6 | 22.3 | 23.9 | 28.7 | 35.2 | 20.8 | 26.7 | 21.3 | - | |
| D22 | 460035 | 452010 | | 31.0 | 29.3 | 22.4 | 26.3 | 24.8 | 22.9 | 22.0 | 25.2 | 31.5 | 31.5 | | 26.7 | 21.4 | - | |
| D24 | 459805 | 451543 | 28.1 | 28.5 | 20.5 | 22.1 | 17.7 | 19.2 | 19.9 | 18.6 | 19.3 | 22.4 | 30 | 24.4 | 22.6 | 18.0 | - | |
| D25 | 459693 | 451750 | 42.8 | 46.3 | 30.0 | 34.0 | 35.1 | 36.0 | 32.2 | 32.0 | 34.9 | 35.4 | 40.9 | 28.7 | 35.7 | 28.6 | - | |
| D26 | 460671 | 451400 | 31.4 | 31.0 | 24.0 | 16.5 | 19.4 | 16.3 | | 17.5 | 17.7 | 26.1 | 26 | 10.9 | 21.5 | 17.2 | - | |
| D27 | 460734 | 451563 | 20.3 | 25.1 | 17.3 | 13.4 | 16.0 | 13.1 | 10.7 | 9.4 | 10.7 | 20.5 | 24.2 | 16.9 | 16.5 | 13.2 | - | |
| D28 | 460764 | 451185 | 34.8 | 39.3 | 30.0 | 26.1 | | 29.2 | 27.9 | 25.2 | 26.8 | 29.8 | 31.8 | 31 | 30.2 | 24.1 | - | |
| D30 | 460834 | 451252 | 27.2 | 28.1 | 22.2 | 17.9 | | 16.2 | 16.3 | 13.2 | 19.1 | 20.3 | 21.6 | 16 | 19.8 | 15.9 | - | |
| D31 | 461002 | 451229 | | 32.4 | 30.3 | 18.9 | 24.6 | 19.7 | 22.0 | 20.3 | 24.8 | 32.2 | 32.5 | 21.6 | 25.4 | 20.3 | - | |
| D32 | 460258 | 451208 | 34.3 | 28.3 | 29.1 | 30.1 | 28.8 | 24.3 | | 19.7 | 30.3 | 30.9 | 32.8 | 23.9 | 28.4 | 22.7 | - | |
| D33 | 460075 | 451174 | 28.6 | 33.1 | 26.1 | 22.1 | 24.2 | 20.5 | 22.1 | 17.8 | 24.7 | 30.1 | 38.4 | 27.9 | 26.3 | 21.0 | - | |
| D35 | 460134 | 451170 | 35.8 | 32.9 | 27.9 | 30.4 | | | 29.6 | 21.1 | 32.6 | 36 | 32.5 | | 31.0 | 24.8 | - | |
| D36 | 460135 | 450884 | 30.1 | 31.3 | 17.8 | 27.8 | 24.4 | 20.6 | 23.5 | 22.0 | 26.3 | 28.9 | 25.8 | 31.4 | 25.8 | 20.7 | - | |
| D37 | 460157 | 450988 | 31.2 | 31.5 | 28.8 | 25.2 | 25.6 | 17.6 | 19.1 | | 18.8 | 27.7 | 33.5 | 25.3 | 25.8 | 20.7 | - | |
| D38 | 460088 | 450929 | 29.5 | | 19.9 | 14.9 | 17.6 | 13.6 | 14.2 | 12.4 | 21.4 | 21.4 | 28.4 | | 19.3 | 15.5 | - | |
| D39 | 460185 | 451055 | 34.3 | 32.7 | 24.5 | 24.4 | 23.0 | 19.6 | 20.2 | 20.1 | 22.8 | | 32.5 | 18.3 | 24.8 | 19.8 | - | |
| D4 | 460560 | 452300 | 30.4 | 32.7 | 19.5 | 20.7 | 19.8 | 18.3 | 17.6 | 17.5 | 17.7 | 26.3 | 32.2 | | 23.0 | 18.4 | - | |

| DT ID | X OS Grid Ref (Easting) | Y OS Grid Ref (Northing) | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual Mean: Raw Data | Annual Mean: Annualised and Bias Adjusted (0.8) | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|-----------------|-------------------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|---|---|---|
| D40 | 460069 | 451196 | 29.7 | 27.0 | 23.7 | 18.9 | 22.1 | 13.9 | 17.0 | 14.0 | 24.7 | 23 | 22.7 | 21 | 21.5 | 17.2 | - | |
| D41 | 460286 | 452487 | 37.7 | 35.8 | 33.0 | 32.1 | 32.4 | 31.1 | 32.6 | 29.5 | 25.5 | 31.9 | 39 | 21.6 | 31.9 | 25.5 | - | |
| D43 | 459920 | 451834 | 40.5 | 42.2 | 35.4 | 26.2 | 31.1 | 27.5 | 27.2 | 24.4 | 26.8 | 31.2 | 35.9 | | 31.7 | 25.3 | - | |
| D45 | 460673 | 451869 | 27.2 | 23.1 | 13.4 | 16.3 | 16.3 | 14.2 | 16.1 | 15.4 | 17.9 | 22.7 | 21.9 | 18.9 | 18.6 | 14.9 | - | |
| D47 | 460682 | 452187 | | 28.5 | 24.3 | 14.1 | 21.2 | 16.5 | 13.0 | 16.0 | 16.5 | 26.3 | 27.4 | | 20.4 | 16.3 | - | |
| D48 | 460103 | 452180 | 36.0 | 32.7 | 29.4 | 20.8 | 28.1 | 19.1 | 21.5 | 23.2 | 27.3 | 30.2 | 30.2 | 27.3 | 27.2 | 21.7 | - | |
| D49 | 460656 | 451269 | 39.4 | 46.2 | 35.8 | 24.7 | 31.6 | 25.2 | 27.0 | 26.3 | 26.8 | 36.5 | 36.2 | 7.2 | 30.2 | 24.2 | - | |
| D50 | 460371 | 451682 | 35.7 | 31.6 | 27.5 | | 26.1 | 19.1 | 21.7 | 21.1 | 21.0 | 30.5 | 23.9 | | 25.8 | 20.7 | - | |
| D51 | 459640 | 451722 | 46.4 | 57.6 | 49.0 | 54.7 | 51.1 | 53.8 | 38.9 | 50.7 | | 51.1 | 10.3 | 24.7 | 44.4 | 35.5 | - | |
| D52 | 460887 | 451140 | 22.5 | 24.5 | 19.2 | 15.6 | | 14.2 | 13.6 | 14.4 | 16.5 | 19.1 | 19.8 | 18 | 17.9 | 14.4 | - | |
| D53 | 460115 | 451146 | | 25.9 | 22.4 | 22.9 | 26.0 | 16.2 | 18.1 | 13.4 | 15.9 | 21.6 | 26.5 | 21.4 | 20.9 | 16.7 | - | |
| D54 | 460146 | 451116 | | 24.8 | 22.2 | 20.7 | 23.4 | 16.1 | 17.5 | 12.1 | 23.7 | 20.4 | 25.9 | 18.6 | 20.5 | 16.4 | - | |
| D55 | 460087 | 452065 | 35.2 | 38.1 | 31.4 | 28.7 | 31.5 | 27.3 | | 24.0 | 36.4 | 34.5 | 32.6 | 16.9 | 30.6 | 24.5 | - | |
| D56 | 460400 | 451685 | 39.2 | 48.8 | 37.5 | 40.8 | 31.9 | 28.2 | 25.5 | 23.7 | 30.7 | 35.8 | 38 | 28.5 | 34.1 | 27.2 | - | |
| D57 | 460416 | 451708 | | 31.9 | 22.8 | 20.1 | 18.0 | 20.3 | 18.8 | 21.8 | 18.1 | 26.5 | 28.1 | 5.6 | 21.1 | 16.9 | - | |
| D58 | 460435 | 451732 | 30.3 | 36.9 | 26.5 | 21.9 | 22.9 | 21.1 | 23.5 | | 23.4 | 31.7 | 41.2 | 25.9 | 27.8 | 22.2 | - | |
| D59 | 460087 | 452156 | 43.1 | 42.0 | 31.1 | 27.9 | 25.5 | 29.5 | 29.9 | 25.7 | 25.4 | 33.3 | 31.5 | 30.4 | 31.3 | 25.0 | - | |
| D6 | 460570 | 452177 | 15.6 | 21.1 | 15.3 | 12.5 | 12.4 | 10.9 | 9.5 | 12.4 | 10.1 | 16.3 | 22.6 | 17.7 | 14.7 | 11.8 | - | |
| D60 | 460294 | 451883 | 22.6 | 25.4 | 16.9 | 11.9 | 13.6 | 14.3 | 10.1 | 12.6 | 10.9 | | 27.7 | 19.7 | 16.9 | 13.5 | - | |
| D8 | 460553 | 451843 | 38.8 | 30.9 | 27.0 | 25.0 | 27.0 | 22.3 | 24.1 | 16.6 | 29.5 | 30.7 | 21.9 | 7.2 | 25.1 | 20.1 | - | |
| D9 | 460483 | 452357 | 16.7 | 37.0 | 34.9 | 27.8 | 38.2 | 26.8 | 29.5 | 27.0 | 33.2 | 36.5 | 33.6 | 22.3 | 30.3 | 24.2 | - | |
| 8, 9, 9a | 460163 | 452468 | 19.1 | 22.6 | 15.5 | 11.0 | 11.6 | 9.4 | 9.5 | 10.6 | 9.0 | 18.3 | 17.2 | 10.6 | 13.7 | 11.0 | - | Triplicate Average for sites 8, 9 and 9a (Portland Street) |
| A13, A14, A14a | 459335 | 452931 | 19.8 | 22.7 | 13.9 | 12.4 | 12.7 | 8.8 | 10.4 | 10.4 | 9.9 | 14.3 | 19.5 | 13.2 | 14.0 | 11.2 | - | Triplicate Average for sites A13, A14 and A14a (Clifton Dale) |
| 78, 79, 80 | 460149 | 452342 | 32.0 | 33.9 | 26.7 | 24.0 | 25.0 | 20.9 | 21.5 | 19.8 | 22.6 | 28.1 | 23.2 | 18.6 | 24.7 | 19.8 | - | Triplicate Average for sites 78, 79 and 80 (Gillygate) |
| 102, 103, 104 | 458703 | 452429 | 37.7 | 36.5 | 30.9 | 22.5 | 23.5 | 17.0 | 19.2 | 17.3 | 14.4 | 29.4 | 32.3 | | 25.5 | 20.4 | - | Triplicate Average for sites 102, 103 and 104 (Salisbury Terrace) |
| 2a, 2b, 2c | 460746 | 451034 | 26.4 | 29.5 | 22.2 | 17.4 | 21.3 | 16.2 | 16.6 | 15.3 | 21.5 | 26.7 | 31.8 | 20.5 | 22.1 | 17.7 | - | Triplicate Average for sites 2a, 2b and 2c (Fishergate) |
| 3a, 3b, 3c | 460024 | 452767 | 17.5 | 20.3 | 13.2 | 10.1 | 9.7 | 9.1 | 8.6 | 10.3 | 6.7 | 15.3 | 18.3 | 6.7 | 12.1 | 9.7 | - | Triplicate Average for sites 3a, 3b and 3c (Bootham) |
| 95a, 95b, 95c | 460938 | 449465 | 22.8 | 22.7 | 17.6 | 17.9 | 17.1 | 17.2 | 15.3 | 15.2 | 16.7 | 21.5 | 27.7 | 18.3 | 19.2 | 15.3 | - | Triplicate Average for sites 95a, 95b and 95c (Fulford) |
| A19, A19a, A19b | 458713 | 452414 | 32.3 | 32.6 | 26.2 | 18.4 | 20.0 | 16.8 | 18.0 | 16.3 | 13.3 | 26.8 | 28.8 | 19.8 | 22.4 | 18.0 | - | Triplicate Average for sites A19, A19a and A19b (Salisbury Terrace) |
| A20, A20a, A20b | 458760 | 452404 | 37.9 | 31.6 | 26.8 | 21.1 | 23.7 | 16.8 | 18.4 | 15.8 | 19.2 | 27.9 | 30.9 | 19.6 | 24.1 | 19.3 | - | Triplicate Average for sites A20, A20a and A20b (Salisbury Terrace) |
| B36, B37, B37a | 462565 | 454194 | 17.0 | 16.6 | 10.7 | 9.6 | 9.5 | 8.6 | 8.6 | 8.5 | 6.1 | 12.7 | 16.9 | 16.2 | 11.7 | 9.4 | - | Triplicate Average for sites B36, B37 and B37a (Malton Road) |
| C43, C43a, C44 | 460869 | 449730 | 30.3 | 26.0 | 24.6 | 20.6 | 19.8 | 20.8 | 19.0 | 18.0 | 20.8 | 22.9 | 33.1 | 25.1 | 23.4 | 18.7 | - | Triplicate Average for sites C43, C43a and C44 (Fulford Road) |

- ☒ All erroneous data has been removed from the NO₂ diffusion tube dataset presented in Table B.1.
- ☒ Annualisation has been conducted where data capture is <75% and >25% in line with LAQM.TG22.
- ☒ Local bias adjustment factor used.
- ☐ National bias adjustment factor used.
- ☒ Where applicable, data has been distance corrected for relevant exposure in the final column.
- ☒ City of York Council confirm that all 2024 diffusion tube data has been uploaded to the Diffusion Tube Data Entry System.

Notes:

Exceedances of the NO₂ annual mean objective of 40µg/m³ are shown in **bold**.
NO₂ annual means exceeding 60µg/m³, indicating a potential exceedance of the NO₂ 1-hour mean objective are shown in **bold and underlined**.
See Appendix C for details on bias adjustment and annualisation.

Appendix C: Supporting Technical Information / Air Quality Monitoring Data QA/QC

New or Changed Sources Identified Within York During 2024

CYC regularly reviews planning applications with respect to potential air quality and other environmental impacts. The main sources identified include road traffic emissions associated with new developments. Developments are required to assess their impacts on air quality where necessary in line with CYC's Low Emission Planning Guidance.

The table below provides an overview of planning applications (including discharge of condition applications) that have been considered in relation to air quality by CYC's Public Protection team during 2024. A formal air quality impact assessment has been requested for some of these applications.

The Annual Status Report provides an opportunity to keep a record of such applications to provide a picture of where changes in air quality may occur in the future. The information presented is also useful to identify where combined impacts of several developments may become important.

Comments on all planning applications processed by CYC are available by searching the planning reference number at [Search Planning Applications received by City of York Council](#). The table below excludes pre-application advice provided by CYC.

| Planning Reference | Description |
|----------------------|---|
| AOD/23/00351 | Condition 11 (EV Charging) of 22/00918/FUL. Haxby Hall, York Road, Haxby, York |
| 24/00129/FULM | Erection of 114no. dwellings with access, open space, landscaping and sustainable drainage. Land To The South Of Sim Balk Lane, York |
| AOD/24/00049 | Condition 14 (EV Charging) of 22/01315/FULM. 11 The Village, Wigginton York, YO32 2PL |
| 23/00160/OUTM | Outline application with all matters reserved except for access for circa 800 dwellings, provision of open space including cemetery expansion, primary school, sports and recreational facilities, flood storage measures, landscaping and associated infrastructure (revised description). Land To |

| Planning Reference | Description |
|----------------------|--|
| | The South Of Rose Cottage Farm And The Lodge, Moor Lane, Haxby, York |
| AOD/24/00118 | Condition 6 (EV Charging) of 22/00707/FULM. York Manor Care Home, Bluebeck Drive, York, YO30 5RA |
| 24/00851/FUL | Provision of an additional car parking area located to the south of the existing temporary car park on Bootham Park Court (retrospective). York District Hospital, Wigginton Road, York, YO31 8HE |
| 24/00898/FUL | Installation of electric vehicle (EV) charging points with canopy and associated sub-station and LV enclosures, and single storey extension to fuel sales building. Morrisons Petrol Filling Station, Foss Islands Road, York, YO31 7UL |
| 24/01077/FULM | Demolition of existing car showroom (sui generis) and erection of a purpose-built student accommodation (sui generis) with associated hard and soft landscaping and cycle and car parking. Turnbull Mazda 17 - 27 Layerthorpe, York, YO31 7UZ |
| 24/01273/ERC | Change of use from Commercial, Business and Service (use class E) to 3no. Dwellinghouses (use class C3) under The Town and Country Planning (General Permitted Development) Order 2015 (as amended) - Schedule 2, Part 3, Class MA. G.M.B General Union, 75 Gillygate, York YO31 7EA |
| AOD/24/00256 | Condition 19 (EV Charging) of 21/00305/OUTM. Huntington South Moor New Lane, Huntington, York |
| 24/01617/ERC | Change of use from Commercial, Business and Service (use class E) to 2no. Flats (use class C3). G M B General Union, 75 Gillygate, York, YO31 7EA |
| 24/01378/LBC | Internal and external alterations to facilitate change of use of offices (use class E) to purpose-built student accommodation, including extensions, rooflight, air vents and associated external works. 5 Main Street, Heslington, York, YO10 5EA |

| Planning Reference | Description |
|-----------------------|---|
| AOD/24/00282 | Condition 13 (EV charging) of 22/00801/FUL. Beverley Court, Shipton Road, Clifton, York |
| AOD/24/00336 | Condition 5 (EV charging) of 19/02193/LIC3. 1A Carey Street, York, YO10 4DN |
| 24/01382/FULM | Residential development comprising of 64no. dwellings (Use Class C3) with new access off North Lane, landscaping, open space and associated infrastructure. Greengales, 11A North Lane, Wheldrake, York YO19 6AY |
| 24/01918/FULM | Change of use of offices (use class E) to 32no. bed purpose-built student accommodation, installation of solar panels and mechanical plant to roof, and rooflights to front, rear and side roof slopes with associated cycle parking. Rougier House, 5 Rougier Street, York |
| 24/01982/EIASN | Screening opinion in respect of proposed mixed-use development comprising purpose-built student accommodation (c 1450 beds) (sui generis use), co-living accommodation (circa 175 beds) (sui generis use) and commercial use (c 500sqm) (use class e); public open space and landscaping, following demolition of existing retail buildings. Sainsbury's, Foss Bank, York, YO31 7JB |
| 24/02021/FULM | Erection of hotel comprising 140no. rooms including external terraces with associated car parking and vehicular drop off area, landscaping and highways works to existing access following demolition of existing building. Northern House, 1 - 9 Rougier Street, York |
| 24/01946/FUL | Construction of a data centre facility and associated plant and enclosure. Better York Leisure Centre, Kathryn Avenue, Huntington, York, YO32 9AF |
| AOD/24/00370 | Condition 21 (EV charging) of 21/01605/FULM. Mecca Bingo, 68 Fishergate, York |

Additional Air Quality Works Undertaken by City of York Council During 2024

Additional work carried out in 2024 to support the development of AQAP measures includes:

- **Electric Vehicle (EV) Charging Infrastructure** – CYC progressed two workshops with the Energy Saving's Trust (EST) in 2024 as part of the development of our updated Public Charging Strategy, due in 2025. These sessions included a review of current options for on-street charging, for residents in terraced streets without off-street parking provision.
- **Smoke Control Areas** – we undertook further research in CYC's historical Smoke Control Orders, collating the required evidence base, and consulted with CYC Legal Services about potential expansion of CYC Smoke Control Area to cover the whole of CYC's administrative area. CYC's [Executive Member for Environment and Climate Emergency](#) approved a public consultation on this issue in March 2025.
- **Gillygate Air Quality Working Group** – A Gillygate Working Group, consisting of CYC officers / members, local residents and York Civic Trust (YCT) met at regular intervals throughout 2024 to consider specific air quality improvement measures on Gillygate in response to continued exceedances of health-based standards. The Gillygate gating trial (as discussed elsewhere in this Annual Status Report) was an initiative that resulted from the work of this group. A full evaluation will follow the trial, which commenced in January 2025 and will run for 12 months.
- **Fourth Air Quality Action Plan (AQAP4)** - We consulted on our updated, fourth Air Quality Action Plan (AQAP4) between November 2023 and February 2024. AQAP4 aims to reduce levels of air pollution in the city beyond health-based National Air Quality Objectives, thereby improving the health and quality of life of residents and visitors to York. Over three quarters (79%) of respondents agreed that the council should continue to reduce air pollution, with between 67% and 87% of respondents indicated support for all priority actions. AQAP4 was adopted by CYC's Executive in July 2024. Updates on progress with measures in AQAP4 are provided in this report.

QA/QC of Diffusion Tube Monitoring

Diffusion tubes used by CYC in 2024 were supplied and analysed by SOCOTEC (Didcot), Unit 12 Moorbrook, Southmead Industrial Park, Didcot, Oxfordshire, OX11 7HP. The preparation method used for the diffusion tubes was 50% TEA in Acetone.

Diffusion tube monitoring was completed in line with the 2024 Diffusion Tube Monitoring Calendar as available on [DEFRA's LAQM webpage](#).

AIR is an independent analytical proficiency-testing (PT) scheme, operated by LGC Standards and supported by the Health and Safety Laboratory (HSL). AIR PT is a new scheme, started in April 2014, which combines two long running PT schemes: LGC Standards STACKS PT scheme and HSL WASP PT scheme. AIR offers a number of test samples designed to test the proficiency of laboratories undertaking analysis of chemical pollutants in ambient indoor, stack and workplace air. For the 2024 period, the percentage of results submitted by SOCOTEC that were deemed to be satisfactory was 100% for all rounds reported at the time of writing (rounds AR062 [Jan – Feb 2024] and AR063 [Apr – June 2024]). Further information about this scheme is available on the [DEFRA webpage](#).

Diffusion Tube Annualisation

Annualisation is required for any diffusion tube monitoring site with data capture less than 75% but greater than 25%. The process of annualisation scales the available monitoring data to provide an estimate of the annual mean nitrogen dioxide concentration. This can then be compared with health-based Air Quality Objectives.

CYC undertook background diffusion tube monitoring of nitrogen dioxide at a number of background locations during 2024. Of these sites, 40 diffusion tubes had 12 months data available and have been used to derive the period to annual ratios required for the annualisation. This methodology has previously been agreed with the LAQM Helpdesk and is in line with the methodology used in all CYC's previous Annual Status Reports. The following steps were used:

- **Step 1** - Calculate the period mean for the diffusion tube sample requiring annualisation
- **Step 2** - Calculate the corresponding period means and annual means for each of the 40 background diffusion tube locations. Use these two figures to calculate the period mean to annual mean ratio for each of the 40 background diffusion tube sites.

- **Step 3** – Calculate the average ratio across the 40 background monitoring sites (i.e. $n = 40$)
- **Step 4** – Use the ratio in Step 3 to adjust the period mean (Step 1) to provide an estimate of the annual diffusion tube mean (non-bias adjusted)
- **Step 5** – Bias correct the value calculated in step 4 using the appropriate bias correction factor.

Four diffusion tube sites required annualisation, namely A36, A54, A56 and B72. Site C53 had only two months of data available and therefore was not suitable for annualisation as data capture was only 16.7%. The calculations and annualisation factors are provided in Table C.1. All annualised diffusion tube results are below the annual mean objective for nitrogen dioxide.

Table C.1 – Annualisation Summary (concentrations presented in $\mu\text{g}/\text{m}^3$)

| Site ID | Average Annualisation Factor | Raw Data Annual Mean | Annualised Annual Mean | Bias Corrected Annualised Annual Mean ($\mu\text{g}/\text{m}^3$) |
|---------|------------------------------|----------------------|------------------------|--|
| A36 | 0.956 | 14.1 | 13.5 | 10.8 |
| A54 | 1.135 | 28.7 | 32.6 | 26.0 |
| A56 | 0.972 | 22.2 | 21.5 | 17.2 |
| B72 | 0.956 | 36.7 | 35.1 | 28.1 |

Diffusion Tube Bias Adjustment Factors

The diffusion tube data presented within the 2024 ASR have been corrected for bias using an adjustment factor. Bias represents the overall tendency of the diffusion tubes to under or over-read relative to the reference chemiluminescence analyser. LAQM.TG22 provides guidance regarding the application of a bias adjustment factor to correct diffusion tube monitoring. Triplicate co-location studies can be used to determine a local bias factor based on the comparison of diffusion tube results with data taken from NO_x/NO_2 continuous analysers. Alternatively, the national database of diffusion tube co-location surveys provides bias factors for the relevant laboratory and preparation method.

City of York Council have applied a local bias adjustment factor of 0.80 to the 2024 monitoring data. A summary of bias adjustment factors used by City of York Council over the past five years is presented in Table C.2.

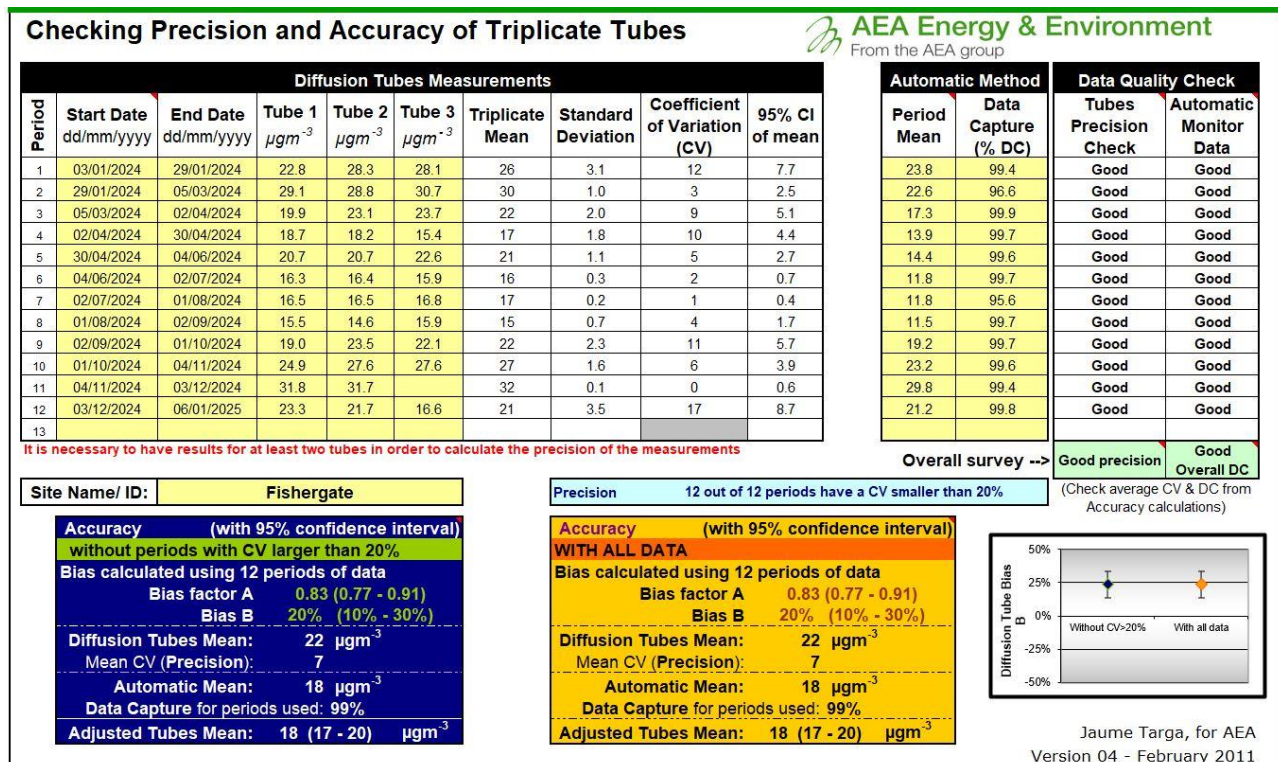
AEA's [Precision and Accuracy spreadsheet](#) has been used to consider co-location studies at 3 York roadside locations (Fishergate, Gillygate and Fulford Road) and one York urban-background location (Bootham). Whilst in previous years, separate local bias adjustment factors have been calculated for diffusion tubes located at roadside and urban background locations respectively, due to the similarity of these factors over the last 3 years (within approximately 1%) a single combined factor has been used for the 2024 data. This is also the approach used when local authorities rely on a national bias adjustment factor.

Data capture and tube precision for 2024 was shown to be 'good' at all 3 roadside sites but precision was 'poor' at the Bootham urban background site. The resultant combined/average bias factor across the 4 sites (following methodology in TG22 para 7.222) was 0.80. Use of a single local bias factor based on 4 local colocation studies has to some extent mitigated the impact of the poor precision observed Bootham. It should be noted that had the Bootham site bias factor been excluded and only the three roadside sites been used in the calculation, the resultant combined/average bias factor using 3 sites would also have been 0.8. A factor of 0.8 has been used to correct diffusion tube results in 2024. The methodology used to derive the combined factor was:

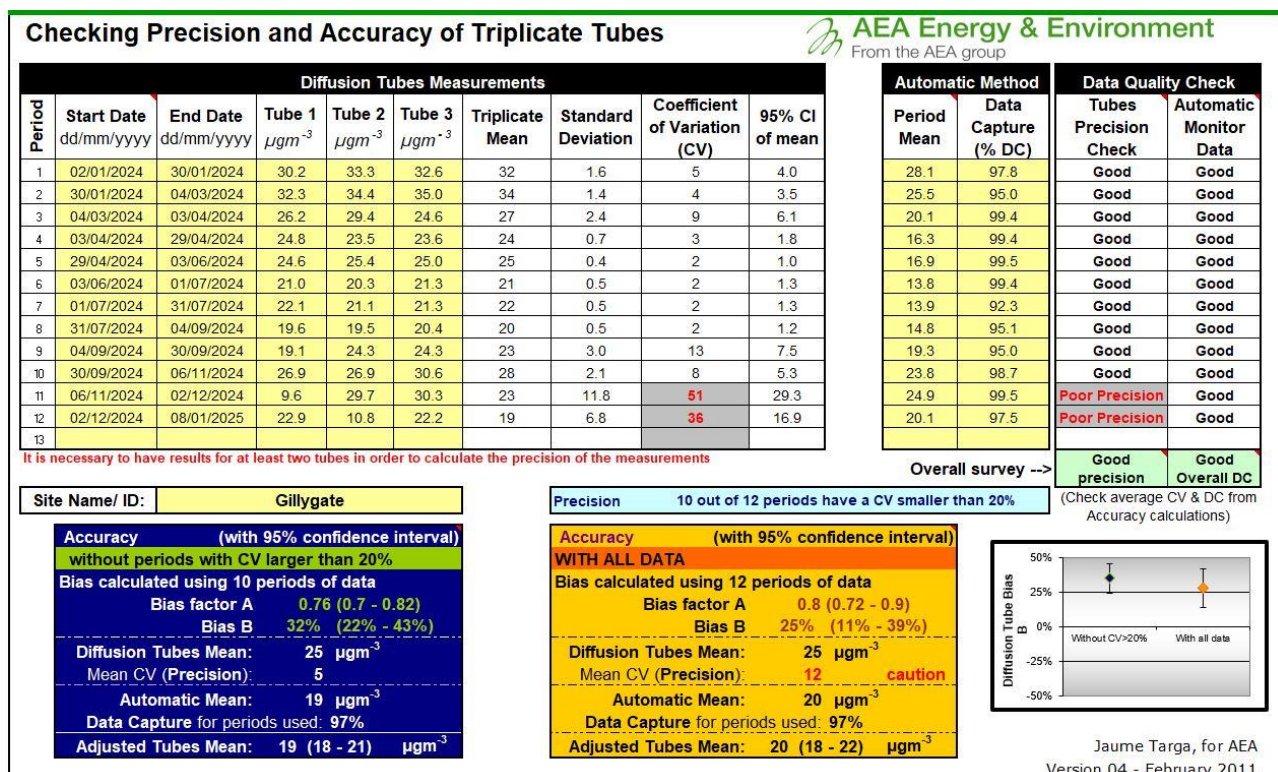
- **Step 1** - Average of Bias Factor B's = $(20+32+22+23)/4 = 24.25$
- **Step 2** - Express as a factor = 0.2425
- **Step 3** - Add 1 to this value = $0.2425 + 1 = 1.2425$
- **Step 4** - Take the inverse to give the bias adjustment factor = $1/1.2425 = 0.80$

Screenshots of the Precision and Accuracy spreadsheets are provided below for all colocation studies.

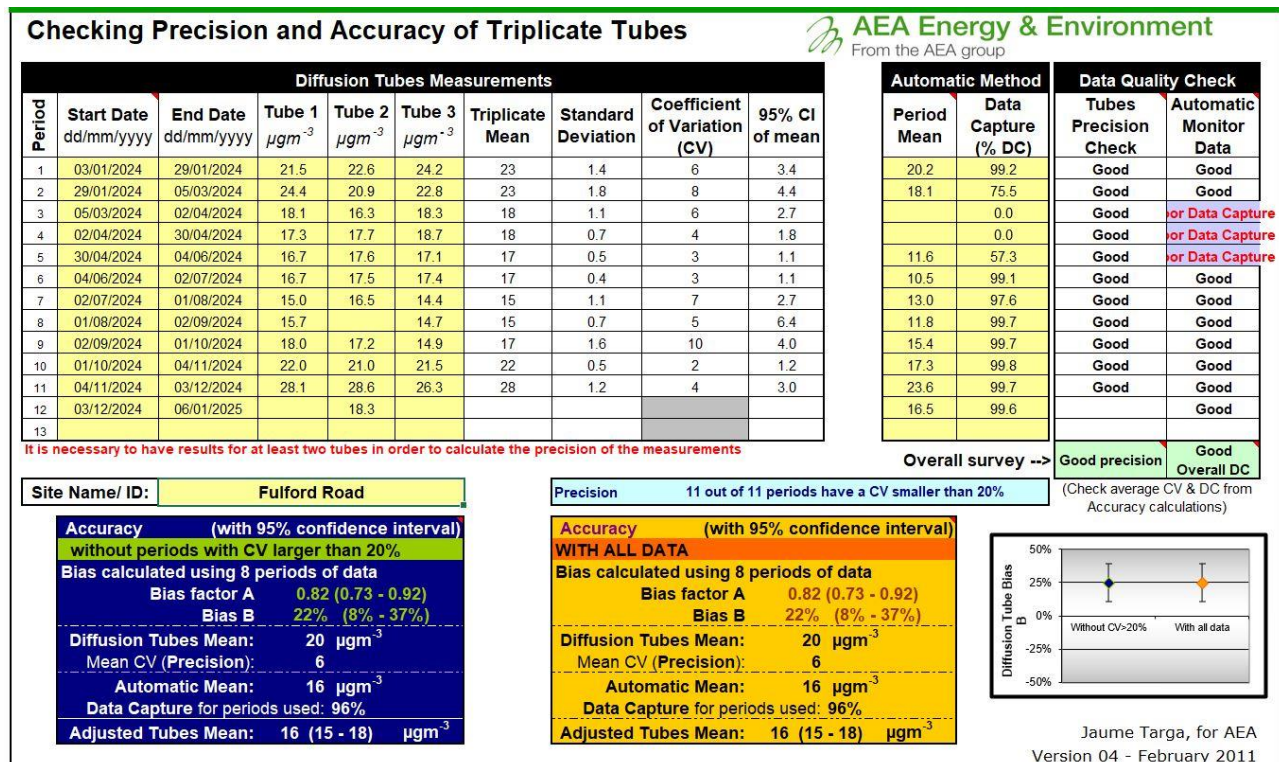
Colocation at Fishergate



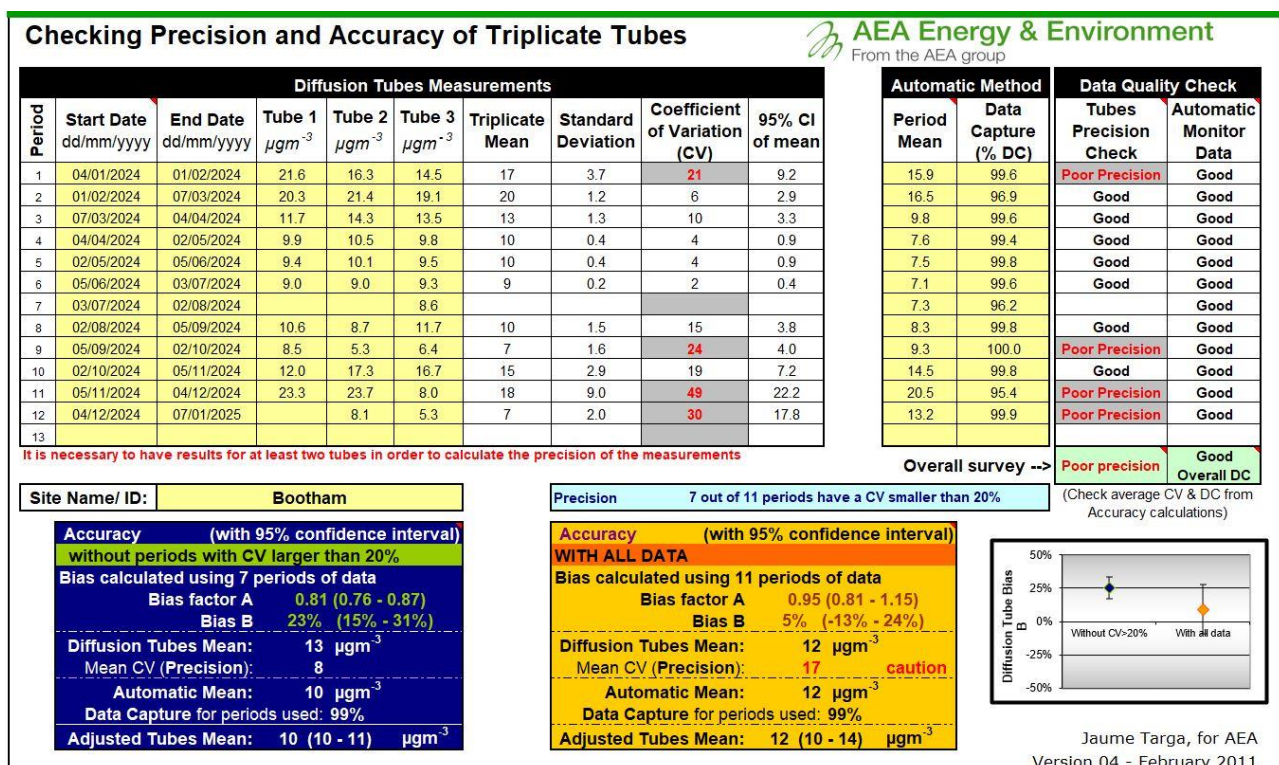
Colocation at Gillygate



Colocation at Fulford Road



Colocation at Bootham



Comparison with national bias adjustment factor

The overall 2024 bias correction factor from the national diffusion tube bias adjustment factor spreadsheet (version 03/25) for SOCOTEC Didcot [preparation method 50% TEA in acetone] from 33 studies was 0.80 (*note: this was updated to 0.78 in version 04/25 of the spreadsheet*). This is the suggested figure to use for all site types in the absence of any local colocation data. Historically, locally derived bias correction factors have always been used for the correction of CYC's diffusion tube data; although in 2024 this would not have significantly affected the results as the locally derived bias correction factor was comparable to the national figure. The local bias factor for 2024 is also very similar to the local bias factors calculated in previous years and reported in historical Annual Status Reports, shown in Table C.2.

Table C.2 – Bias Adjustment Factor

| Monitoring Year | Local or National | If National, Version of National Spreadsheet | Adjustment Factor |
|-----------------|-------------------|--|--|
| 2024 | Local | - | All tubes 0.80 |
| 2023 | Local | - | Background tubes 0.78 Roadside tubes 0.77 |
| 2022 | Local | - | Background tubes 0.73 Roadside tubes 0.73 |
| 2021 | Local | - | Background tubes 0.72 Roadside tubes 0.75 |
| 2020 | Local | - | Background tubes 0.68 Roadside tubes 0.74 |

Table C.3 – Local Bias Adjustment Calculation

| | Local Bias Adjustment Input 1 – Bootham (Urban Background) | Local Bias Adjustment Input 2 – Fishergate (Roadside) | Local Bias Adjustment Input 3 – Gillygate (Roadside) | Local Bias Adjustment Input 4 – Fulford Rd (Roadside) |
|--|--|---|--|---|
| Periods used to calculate bias | 7 | 12 | 10 | 8 |
| Bias Factor A | 0.81 (0.76 - 0.87) | 0.83 (0.77 - 0.91) | 0.76 (0.70 - 0.82) | 0.82 (0.73 - 0.92) |
| Bias Factor B | 23% (15% - 31%) | 20% (10% - 30%) | 32% (22% - 43%) | 22% (8% - 37%) |
| Diffusion Tube Mean ($\mu\text{g}/\text{m}^3$) | 13 | 22 | 25 | 20 |

| | Local Bias Adjustment Input 1 – Bootham (Urban Background) | Local Bias Adjustment Input 2 – Fishergate (Roadside) | Local Bias Adjustment Input 3 – Gillygate (Roadside) | Local Bias Adjustment Input 4 – Fulford Rd (Roadside) |
|---|--|---|--|---|
| Mean CV (Precision) | 8 | 7 | 5 | 6 |
| Automatic Mean ($\mu\text{g}/\text{m}^3$) | 10 | 18 | 19 | 16 |
| Data Capture | 99% | 99% | 97% | 96% |
| Adjusted Tube Mean ($\mu\text{g}/\text{m}^3$) | 10 (10 – 11) | 18 (17 – 20) | 19 (18 – 21) | 16 (15 – 18) |

Notes:

A combined local bias adjustment factor of 0.80 has been used to bias adjust the 2024 diffusion tube results.

NO₂ Fall-off with Distance from the Road

Wherever possible, monitoring locations are representative of exposure. However, where this is not possible, the NO₂ concentration at the nearest location relevant for exposure can be estimated using the Diffusion Tube Data Processing Tool/NO₂ fall-off with distance calculator available on the LAQM Support website. Where appropriate, non-automatic annual mean NO₂ concentrations corrected for distance are presented in Table B.1.

However, no diffusion tube NO₂ monitoring locations within York required distance correction during 2024.

QA/QC of Automatic Monitoring

To ensure that the air quality data collected by CYC fully complies with the requirements of the Review and Assessment process, a comprehensive set of QA/QC procedures are in place. The aims of the QA/QC programme were fully detailed in 'Technical Annex 2: Air Pollution Monitoring in York' which was submitted with the Second and Third Stage Review and Assessment of Air Quality in York.

All roadside automatic monitoring sites are calibrated fortnightly by CYC's Public Protection Team. The Bootham urban background monitoring site is calibrated 4-weekly in line with AURN requirements. Sites are serviced by the equipment suppliers every 6 months and independently audited every 12 months. The annual audit also provides an independent check of site cylinder concentrations against reference standards. The latest round of station audits was carried out in January 2025 by Ricardo-AEA.

CYC's continuous monitoring sites are currently serviced and maintained by '[Matt's Monitors](#)'. Data management is currently undertaken by Ricardo-AEA with all results being published to the [Air Quality England](#) website. This website displays live and historical data for all automatic monitoring sites in York. All data presented in this ASR is fully ratified, including all data used for annualisation of Holgate Road PM_{2.5}.

PM₁₀ and PM_{2.5} Monitoring Adjustment

For Plantation Drive TEOM (PM₁₀) data in 2024 a correction factor of 1.3 has been applied (INDIC.GRAV) due to lack of nearby TEOM-FDMS data for VCM correction.

Gillygate and Holgate Road PM_{2.5} data was collected throughout 2024 as TEOM-FDMS. No correction has been undertaken as this is equivalent to the reference method.

No correction factors have been applied to the BAM data presented in this report (Bootham and Fishergate) as this is this monitoring method also provides reference method equivalent data.

Automatic Monitoring Annualisation

No annualisation was required apart from for Holgate Road for PM_{2.5} in 2024. Details are shown in the table below.

Table C.4 – Automatic PM_{2.5} Annualisation Summary (concentrations presented in µg/m³)

| Background Site | Annual Data Capture (%) | Annual Mean (A _m) | Holgate Road | |
|--|-------------------------|-------------------------------|-------------------------------|--|
| | | | Period Mean (P _m) | Ratio (A _m / P _m) |
| York Bootham (AURN) | 96.5 | 7.7 | 8.4 | 0.917 |
| High Muffles (AURN) | 96.8 | 4.7 | 5.0 | 0.927 |
| Leeds Centre (AURN) | 94.4 | 7.7 | 8.6 | 0.891 |
| Average (R _a) | | | 0.911 | |
| Raw Data Annual Mean (M) | | | 8.4 | |
| Annualised Annual Mean (M x R _a) | | | 7.6 | |

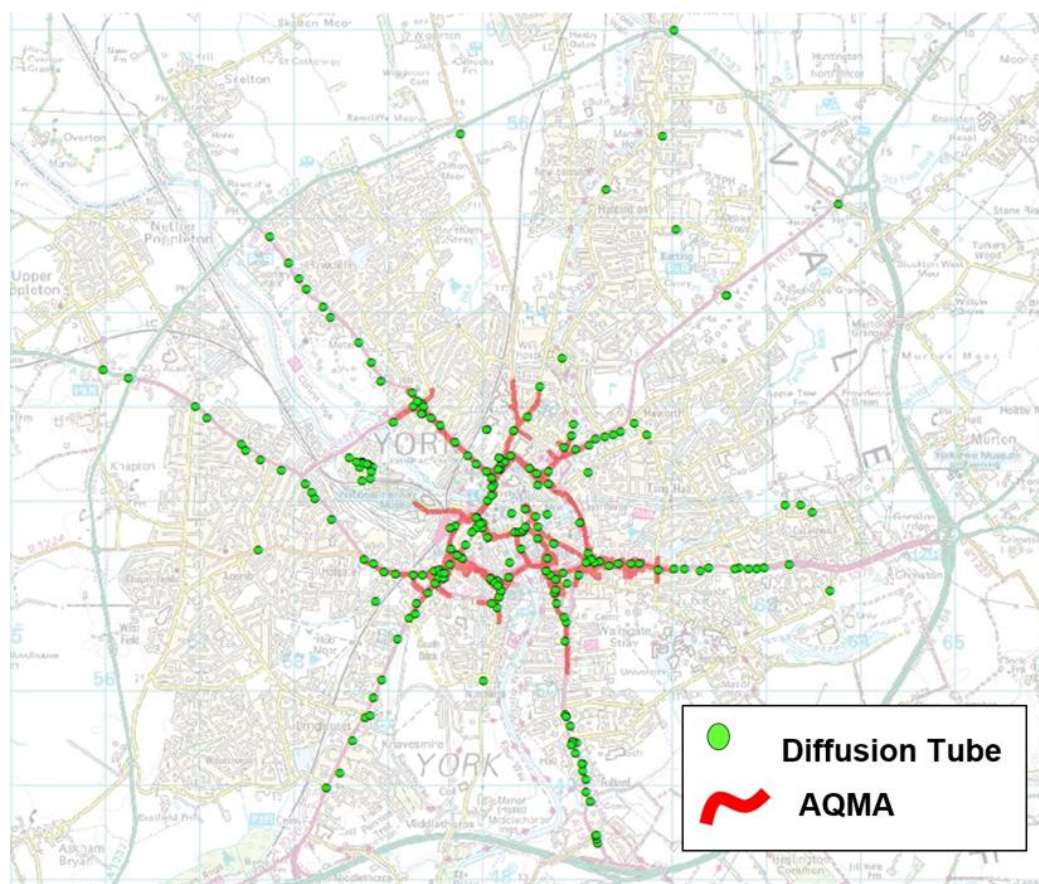
NO₂ Fall-off with Distance from the Road

Wherever possible, monitoring locations are representative of exposure. However, where this is not possible, the NO₂ concentration at the nearest location relevant for exposure has been estimated using the NO₂ fall-off with distance calculator available on the LAQM Support website. Where appropriate, automatic annual mean NO₂ concentrations corrected for distance are presented in Table A.3. However, no automatic NO₂ monitoring locations within CYC's area required distance correction during 2024.

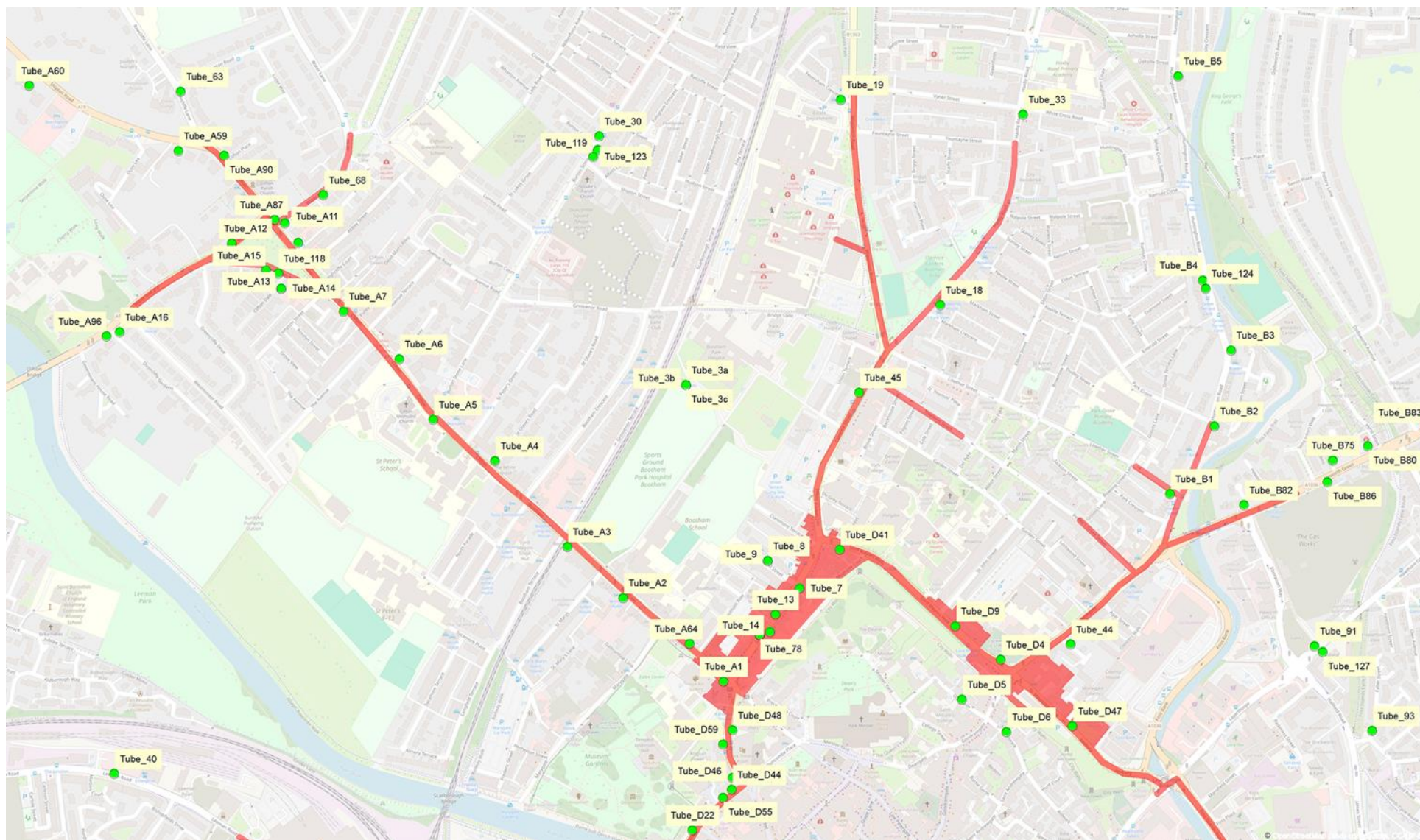
Appendix D: Map(s) of Monitoring Locations and AQMAs

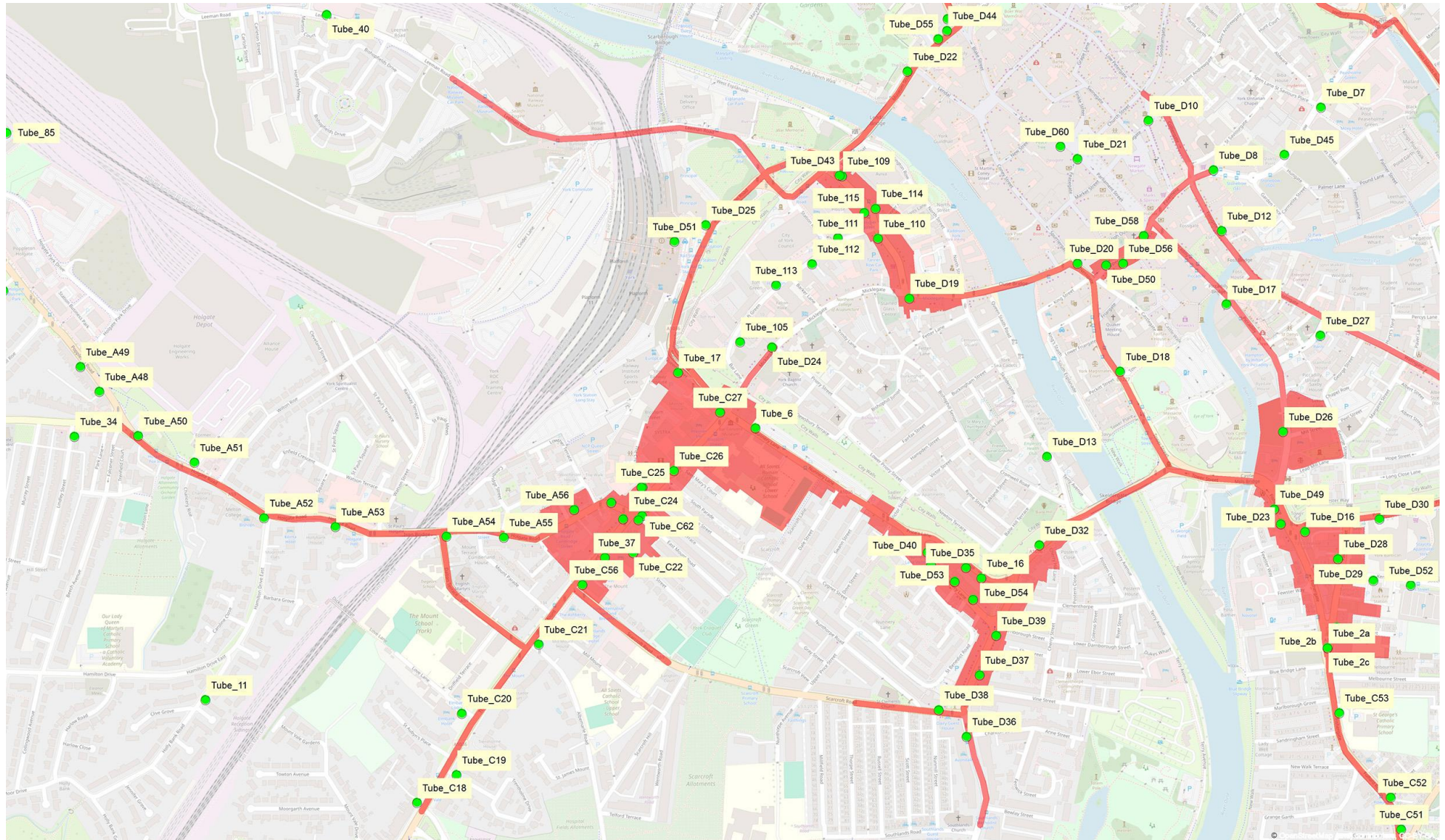
Figure D.1 – Map of Non-Automatic Monitoring Site

Due to the number of tubes operated by City of York Council, an interactive diffusion tube map showing tube reference numbers has been made available online to accompany the 2025 ASR. [View interactive diffusion tube map here](#). Expanded views showing diffusion tube locations across all areas of the AQMA are shown on the following pages.



Expanded views of diffusion tube locations in relation to the AQMA boundary:





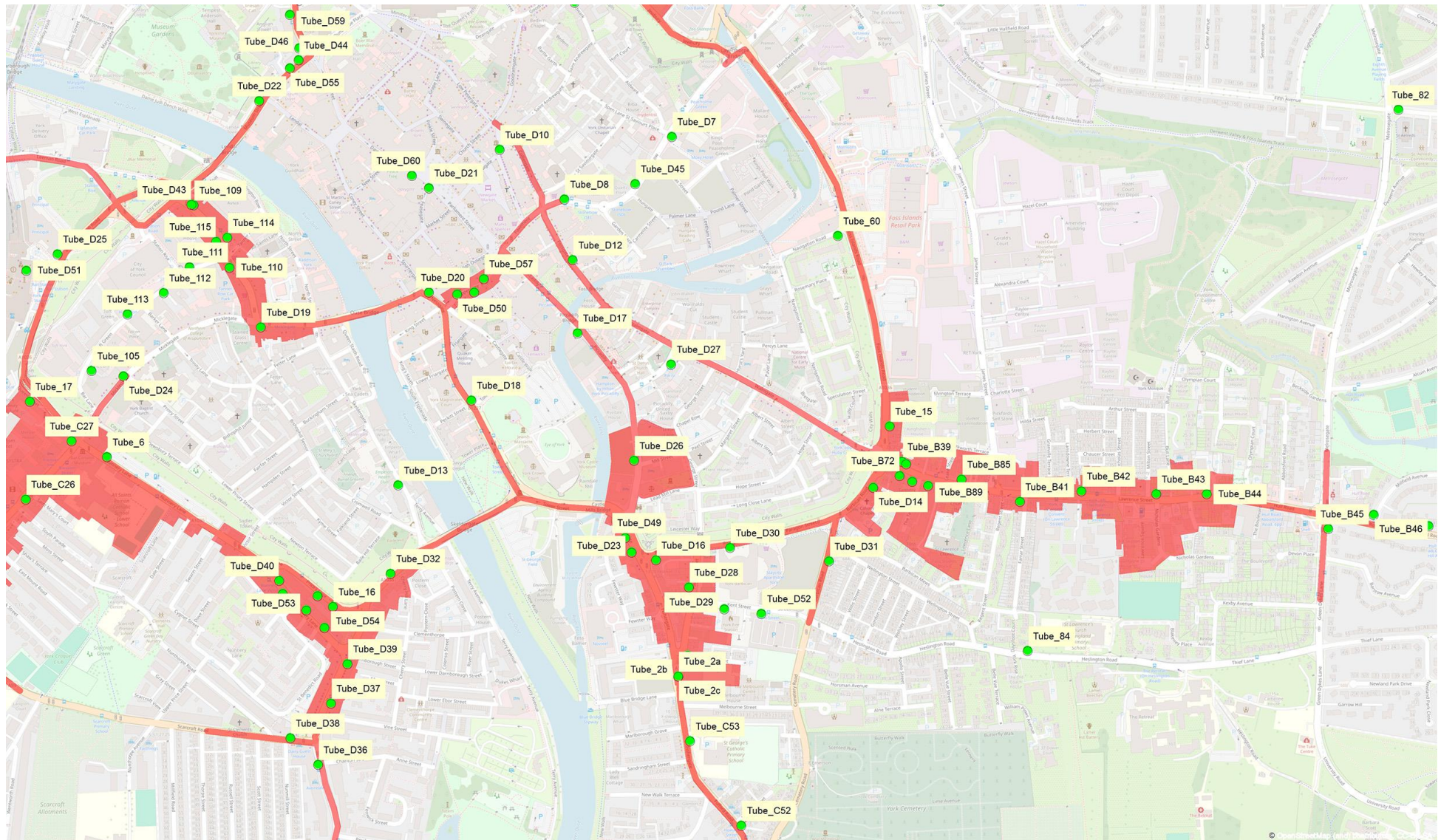
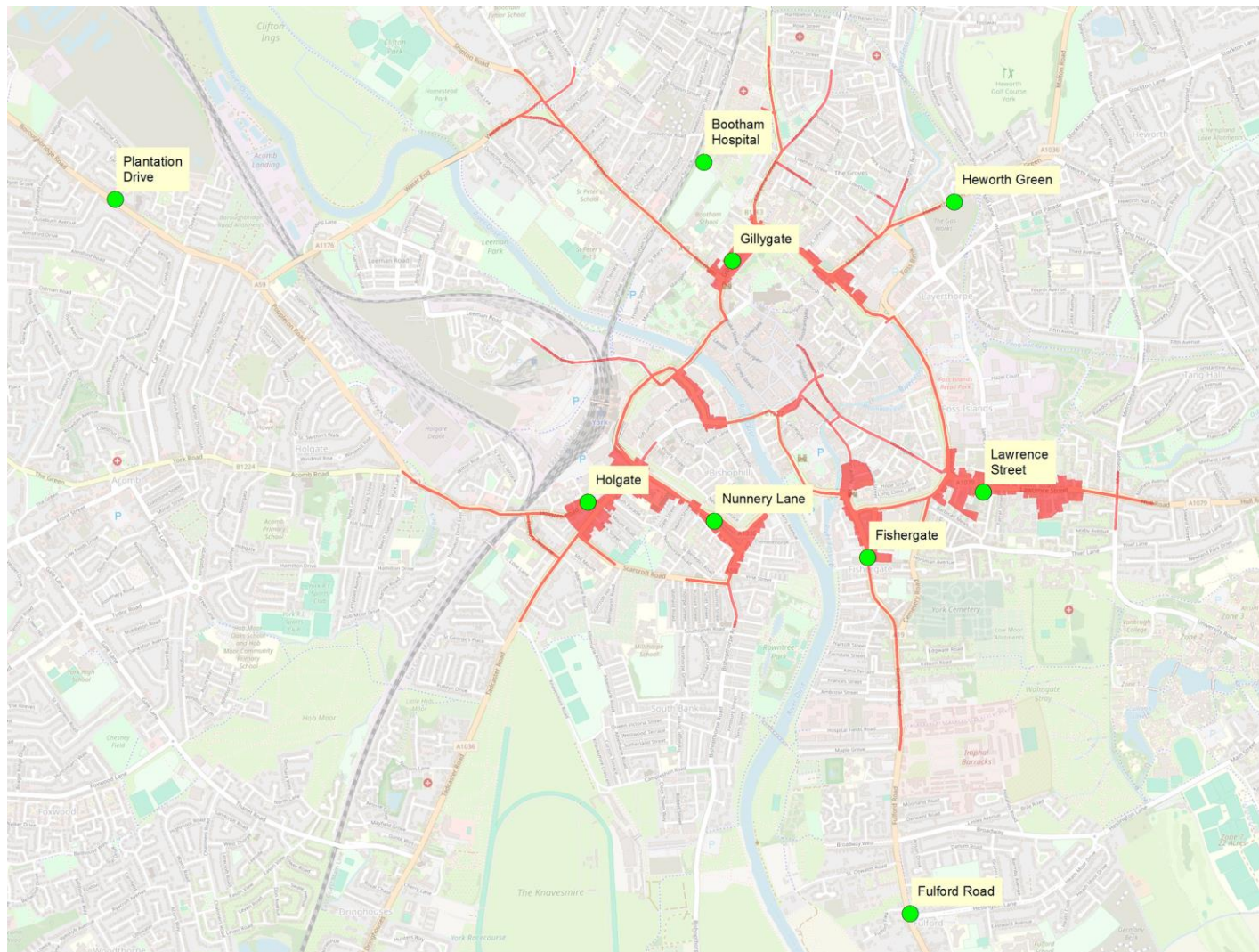




Figure D.2 - Map of Automatic Monitoring Sites in relation to AQMA

Air Quality Management Area (AQMA) shown in red. Precise locations of automatic monitors are shown online at the [Air Quality England website](https://www.airqualityengland.co.uk/).



Appendix E: Summary of Air Quality Objectives in England

Table E.1 – Air Quality Objectives in England²

| Pollutant | Air Quality Objective: Concentration | Air Quality Objective: Measured as |
|--|---|------------------------------------|
| Nitrogen Dioxide (NO ₂) | 200µg/m ³ not to be exceeded more than 18 times a year | 1-hour mean |
| Nitrogen Dioxide (NO ₂) | 40µg/m ³ | Annual mean |
| Particulate Matter (PM ₁₀) | 50µg/m ³ , not to be exceeded more than 35 times a year | 24-hour mean |
| Particulate Matter (PM ₁₀) | 40µg/m ³ | Annual mean |
| Sulphur Dioxide (SO ₂) | 350µg/m ³ , not to be exceeded more than 24 times a year | 1-hour mean |
| Sulphur Dioxide (SO ₂) | 125µg/m ³ , not to be exceeded more than 3 times a year | 24-hour mean |
| Sulphur Dioxide (SO ₂) | 266µg/m ³ , not to be exceeded more than 35 times a year | 15-minute mean |

² The units are in microgrammes of pollutant per cubic metre of air (µg/m³).

Glossary of Terms

| Abbreviation | Description |
|-------------------|---|
| AQAP | Air Quality Action Plan - A detailed description of measures, outcomes, achievement dates and implementation methods, showing how the local authority intends to achieve air quality limit values' |
| AQMA | Air Quality Management Area – An area where air pollutant concentrations exceed / are likely to exceed the relevant air quality objectives. AQMAs are declared for specific pollutants and objectives |
| ASR | Annual Status Report |
| Defra | Department for Environment, Food and Rural Affairs |
| DMRB | Design Manual for Roads and Bridges – Air quality screening tool produced by National Highways |
| LAQM | Local Air Quality Management |
| NO ₂ | Nitrogen Dioxide |
| NO _x | Nitrogen Oxides |
| PM ₁₀ | Airborne particulate matter with an aerodynamic diameter of 10µm or less |
| PM _{2.5} | Airborne particulate matter with an aerodynamic diameter of 2.5µm or less |
| QA/QC | Quality Assurance and Quality Control |
| SO ₂ | Sulphur Dioxide |

References

- Local Air Quality Management Technical Guidance LAQM.TG22. August 2022. Published by Defra in partnership with the Scottish Government, Welsh Assembly Government and Department of the Environment Northern Ireland.
- Local Air Quality Management Policy Guidance LAQM.PG22. August 2022. Published by Defra in partnership with the Scottish Government, Welsh Assembly Government and Department of the Environment Northern Ireland.
- Chemical hazards and poisons report: Issue 28. June 2022. Published by UK Health Security Agency
- Air Quality Strategy – Framework for Local Authority Delivery. August 2023. Published by Defra.
- City of York Council's previous LAQM Review and Assessment reports can be found on [City of York Council's website](#).