# 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: 30 June 2025



| Information | North Yorkshire Council |
|---|---|
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## Local Responsibilities and Commitment

This ASR was prepared by the Scientific Team in Regulatory Services of North Yorkshire Council (NYC) with the support and agreement of the following:

- NYC Environmental Health
- NYC Trading Standards
- NYC Planning Policy
- NYC Climate Action officers
- NYC Highways and Traffic Management
- NYC Public Health Officer
- NYC Economic Development

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# Executive Summary: Air Quality in Our Area

This is the second combined Annual Status Report (ASR) for the County of North Yorkshire, reporting on Air Quality in the localities of Richmondshire, Selby, Craven, Harrogate, Hambleton, Scarborough, and Ryedale during the 2024 year. The former localities are referenced for continuity with previous reports.

North Yorkshire is a large non-metropolitan county in the North of England, a geographical area, broadly incorporating the historic towns of Harrogate, Richmond, Scarborough, Malton, Skipton, Selby and Northallerton. There are also considerable stretches of deep rurality from the rolling hills of the Yorkshire Dales National Park in the West, through the North Yorkshire Moors National Park, to the unique rugged coastline in the east. With a county population of over 600,000 people (Census 2021) the diverse region of North Yorkshire offers the benefits of beautiful rurality, coastline settings, historical towns, and an excellent quality of life, with easy access to the main national road and rail network.

## Air Quality in North Yorkshire

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. In the UK, it is estimated that the reduction in healthy life expectancy caused by air pollution is equivalent to 29,000 to 43,000 deaths a year[1].

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.[2].

Air quality is compromised when it contains particulate matter, which can include dust, dirt, soot, smoke, and liquid droplets. These emissions are typically emitted from Transport, Waste Management, Industrial Process, and Agricultural soils. Particles less than 10

[1] UK Health Security Agency. Chemical Hazards and Poisons Report, Issue 28, 2022.

[2] Defra. Air quality and social deprivation in the UK: an environmental inequalities analysis, 2006

micrometres in diameter ($PM_{10}$) pose a health concern, particles less than 2.5 micrometres ($PM_{2.5}$) in diameter are referred to as ‘fine’ and pose the greatest health risks because their small size can be inhaled deeply into the lungs and can enter the bloodstream. Air pollution can negatively affect human health through short term (days to weeks) transitory exposure and long-term accumulated exposure (over years to decades) with the latter considered to cause the greater harm.

Overall, North Yorkshire has very few areas of major concern in relation to air quality, with the main source of pollution being from road transport emissions, i.e. nitrogen oxides/ nitrogen dioxide ($NOx/NO_2$) and particulate matter ($PM_{10}$); the primary focus of our monitoring for air pollution being nitrogen dioxide ($NO_2$). Monitoring focusses on the more traffic congested areas where pollution may affect the population and where necessary there will be targeted measures to address these issues.

As a Council that encompasses the large rurality of the Yorkshire Dales National Park (YDNP) and the North York Moors National Park (NYMNP), there are many areas affected by rotational heather burning within the North Yorkshire Council (NYC) boundary. A public consultation is taking place in the 2025 year on proposed amendments to Heather and Grass Burning Regulations. Whilst this is focused on land management issues, extended protection in peat areas of moorland is likely to reduce the spread of particulate matter created from burning, illustrated in the picture below, which is seen as a positive step towards the improvement of air quality for residents in North Yorkshire.

The major road systems that run the length and breadth of the county include the A1(M), A64, A66, A170, A19 and A59, plus numerous minor roads that encompass the rural and urban areas. The East Coast main line railway also intersects the county, connecting people with the North and the South of the UK. Nitrogen dioxide levels have been the principal focus of monitoring road traffic conditions in 2024 for North Yorkshire. Some urban areas with narrow congested streets, road junctions and canyon-like surroundings

(i.e. buildings close to the road on both sides) have reported elevated $NO_2$ results in previous years with increasing throughput of traffic.

The Air Quality Standards Regulations (2010) Nitrogen dioxide (NO2) - GOV.UK (www.gov.uk) require that the annual mean concentration of $NO_2$ must not exceed **40µg/m³** (40 microgrammes / cubic metre) and that there should be no more than eighteen exceedances of the hourly mean limit value (concentrations above 200 µg/m³) in a single year. Depending on the levels of exceedance of the Air Quality Objective (AQO) in an area an effective and targeted Air Quality Action Plan (AQAP) is formulated to manage and improve the air quality in those areas; with the aim of bringing the AQO back to acceptable levels to protect people's health and the wider environment.

In 2024, North Yorkshire had eight declared Air Quality Management Areas (AQMAs), seven for $NO_2$ at various towns in the council and one for $PM_{10}$ in the village of Staithes. In September 2024 a revised combined district AQAP was submitted to Defra which included the recommendations to revoke four of NYC's AQMAs due to continued compliance with the National AQO for the preceding 5 years (or more). The AQAP was subsequently approved by Defra in September 2024 and four of the declared AQMAs were formally revoked on 4th October 2024 and three AQMAs remain for continued monitoring of $NO_2$ and one for $PM_{10}$. These are discussed in more detail in section 2.1.

Air Quality in our area is broadly impacted by Agriculture, Military, Distribution, Hotels and Restaurants, Public Administration, Education and Health. NYC are the regulator for over 260 Industrial and commercial permitted sites, including five A2 permitted sites, which tend to be larger more complex operations. The permitting regime facilitates monitoring of potential emissions to air, but also to water, and land for some installation sites. The permitted sites include fuel stations, quarries, dry chemical cleaning processes, concrete block manufacturing, waste incineration and crematoria.

In 2024 the Scientific Team undertook a process to streamline our Permit inspection regime, harmonising the processes, permits and conditions associated with managing environmental permits. This has led to increased efficiency, reduced the regulatory burden and made it clearer for permit holders. This continues through into 2025 in line with The Environmental Permitting (England and Wales) Regulations 2016 (legislation.gov.uk) .

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 $PM_{2.5}$) | Particulate matter is everything in the air that is not a gas.<br>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.<br>$PM_{10}$ refers to particles under 10 micrometres. Fine particulate matter or $PM_{2.5}$ are particles under 2.5 micrometres. |

## 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.

The Environmental Improvement Plan[3] sets out actions that will drive continued improvements to air quality and to meet the new national interim and long-term targets for fine particulate matter ($PM_{2.5}$), the pollutant most harmful to human health. Defra's Air Quality Strategy[4] provides more information on local authorities' responsibilities to work towards these new targets and reduce fine particulate matter in their areas.

In fulfilment of NYC's responsibilities, we will not be waiting for legal limits to be breached, we will be tackling air quality (AQ) issues through measures in our approved AQAP as well as developing an Air Quality Strategy. Having both, which is not legally necessary, will ensure a more comprehensive and pro-active commitment to tackling air pollution in our area.

[3] Defra. Environmental Improvement Plan 2023, January 2023

[4] Defra. Air Quality Strategy – Framework for Local Authority Delivery, August 2023

The Department for Transport's 'The Road to Zero[5] 'details the Government's approach to reduce exhaust emissions from road transport through a number of mechanisms, in balance with the needs of the local community. This is extremely important given that cars are the most popular mode of personal travel, and the majority of Air Quality Management Areas (AQMAs) are designated due to elevated concentrations heavily influenced by transport emissions.

Following the consistent downward trend in air quality issues in the county areas and the revocation of four AQMAs, NYC will continue to monitor the remaining three AQMAs in relation to $NO_2$ and one AQMA in relation to $PM_{10}$ in Staithes. Should any AQMA fall below 10% of the AQO of 40$\mu g/m^3$ for 3 years or more, we will seek to revoke the AQMAs in line with local authority expectations, or sooner if advised to do so by Defra. This is discussed in more detail later in the report under section 2.1.

The main actions for North Yorkshire Council going forwards are summarised as follows:

- Continue to monitor utilising 222 diffusion tubes and 209 locations (due to triplicates).
- Undertake a review of the numbers and locations of diffusion tubes referenced above to ensure they are appropriately sited and representative of air quality issues within the NYC area.
- Streamline and strengthen the environmental permitting regime to limit emissions to atmosphere.
- Install 6 Aeroqual AQS1 air quality monitoring stations across NYC, which will monitor $NO_2$, CO, PM ($PM_{10}$, $PM_{2.5}$, $PM_1$ and TSP), implement 3 Zephyr monitoring stations to include $NO_2$, PM ($PM_{10}$, $PM_{2.5}$, $PM_1$ and TSP. This will assist in developing a wider monitoring strategy and provide guidance on the handling, analysis, interpretation, and reporting of air quality monitoring data.
- As a consultee of the planning regimes for NYC (North Yorkshire Council), YDNP (Yorkshire Dales National Park) and NYMNP (North Yorkshire Moors National Park), we will continue to influence the reduction of air pollution through planning conditions, influence the content of developing policy within the NYC, through the

[5] DfT. The Road to Zero: Next steps towards cleaner road transport and delivering our Industrial Strategy, July 2018

promotion of sustainable transport, green construction techniques and air quality monitoring.

- Development of a new North Yorkshire Local Plan is being prepared to guide development and conservation in the area until 2045, with the exclusion of the North York Moors and the Yorkshire Dales National Parks. This Plan will replace former district authority area plans, which currently remain in place until the new Local Plan is formally adopted. NYC will be inviting views on future growth and development priorities through a consultation during 2025. To be reported on in future ASRs.
- Continue to champion air quality issues within North Yorkshire Council, using the Air Quality Steering Group as a platform for collaboration with stakeholders to support more strategic alignment.

## Conclusions and Priorities

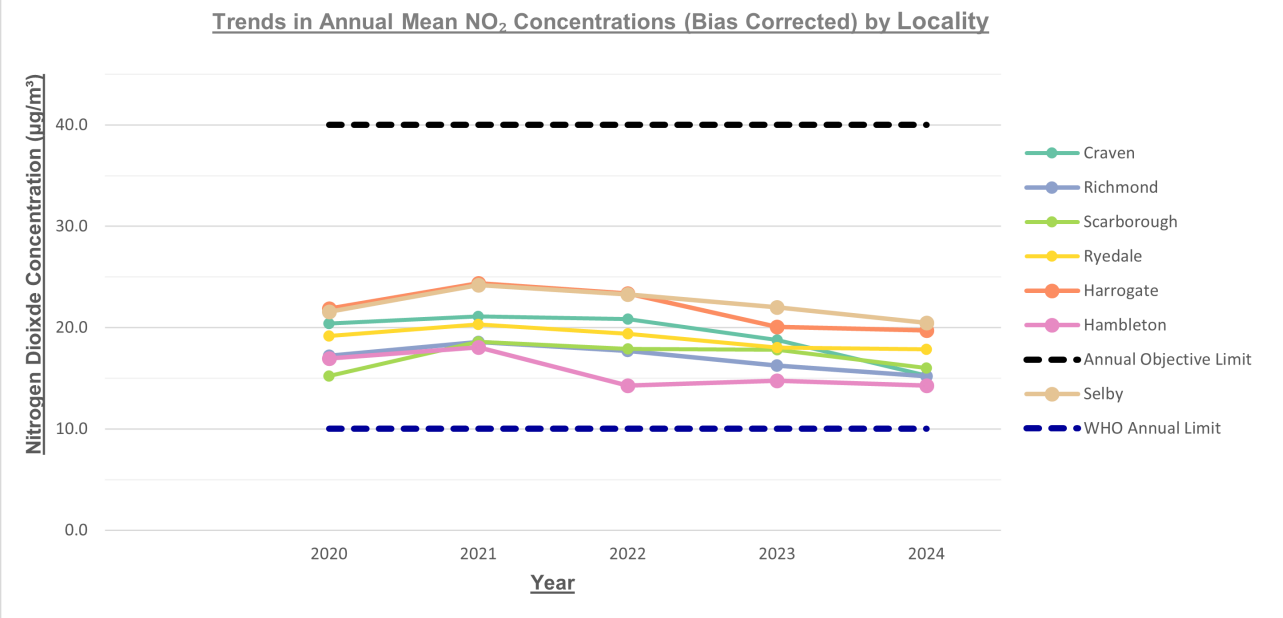
This report provides the results of the monitoring of nitrogen dioxide ($NO_2$) concentrations over the past 5 years. The $NO_2$ annual mean concentrations are compared to the AQO of 40µg/$m^3$ for England.

The annual mean objective of 40µg/$m^3$ for England was not exceeded at any of the NYC monitoring points in 2024. There continues to be a steady decrease in annual concentrations consistent with an overall predicted downward trend for the majority of locations.

**The highlights are:**

- The approval of the AQAP in September and subsequent revocation of four AQMAs in November 2024 has been a noteworthy achievement this year. NYC plan to update the AQAP to reflect the revocation changes in the coming year, once the 2025 ASR has been approved.
- NYC will also review the remaining AQMAs in NYC that have achieved 5 years consecutive compliance with the AQO and consider revocation accordingly. No further AQMAs have been declared.
- NYC will continue to review and assess local air quality across North Yorkshire and to fulfil our legal obligations. We will consider the WHO air quality guidelines and how we might work harder towards these in the coming years; to be reported on in future ASR's and in an updated AQAP later this year.

- The following graph illustrates our achievements over the last 5 years and how NYC's annual mean monitoring data compares with the UK AQO of 40µg/m$^3$ and the WHO Global Air Quality Guidelines ( WHO Global Air Quality Guidelines ) ultimate limit of 10µg/m$^3$. Whilst the WHO guidelines represent very ambitious targets, like many other Councils, we endeavour to work hard towards the WHO limit. In pursuit of AQ improvements in North Yorkshire we are already below the first interim target of 30µg/m$^3$ set by WHO, across **all** areas.




- Reviewing all monitoring locations over the next two years, reduce and/or relocate as required.
- NYC have brought together our diffusion tube network and selected one supplier contractor for the coming year of 2025 with Socotec.
- NYC is to develop an AQ Strategy paper which will outline a plan to further improve air quality, setting air quality standards, objectives, and measures to reduce pollutants. It will be a framework for NYC to take action and address local air quality goals.
- Reviewing development schemes and improvement works to ensure there are no air quality concerns in neighbourhood planning and land use.

## How to get Involved

Members of the public are encouraged, through the NYC website, local community programmes and campaigns to get involved by reducing the number of car-driver trips, through car sharing, increased use of public transportation, and promoting the increase of active travel alternatives, such as cycle and walking.

North Yorkshire annually promotes information about Clean Air Day and Clear Air Night alongside Public Health to raise awareness and understanding of the impacts of air pollution and the health benefits of good air quality. Local schools are encouraged to get involved using Clean Air Day resources for schools and think about air pollution and the impacts in their daily lives. [Clean Air Day | Action for Clean Air]


Electric Vehicle Charge Points (EVCPs) continue to be installed in council-run car parks across the wider North Yorkshire area as part of the 2030 net-zero plans.

The Public consultation process on local planning, permitting, transport plans and other regulatory work gives a transparent view and process for the public to get involved, feel part of, and contribute to decision making.

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## Figures



## Tables

# 1 Local Air Quality Management

This report provides an overview of air quality in the North Yorkshire Council (NYC) area 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 NYC 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 NYC can be found in Table 2.1. The table presents a description of the four AQMAs that are currently designated within the North Yorkshire Council area.

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

- $NO_2$ annual mean
- $PM_{10}$ 24-hour mean

As stated in the Technical Guidance LAQM.TG22, the revocation of an AQMA should be considered if pollutant levels fall below the UK national air quality objective (AQO) levels for a period of 3 consecutive years of compliance with the relevant objective, as evidenced through monitoring and/or modelling. As such, there should not be any declared AQMAs for which compliance with the relevant objective has been achieved for a consecutive five-year period.

In 2023 NYC inherited eight declared AQMAs, seven for $NO_2$ and one for $PM_{10}$, we set out our plans and reasoning to revoke four of these AQMAs during 2024 in the Councils Air Quality Action Plan (AQAP). Local air quality management | North Yorkshire Council

Four AQMAs were approved for revocation and four AQMAs remain with details in Table 2.1 below.

We do not propose to declare any new AQMAs in the NYC area as there are no exceedances of the $NO_2$ annual mean/$PM_{10}$ 24-hour mean air quality objectives (see

appendix A: monitoring results). There are no anticipated changes in sources or levels expected in any other areas of NYC.

## 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 |
|---|---|---|---|---|---|---|---|---|---|
| AQMA 1 Knaresborough AQMA No. 1 Bond End, Knaresborough | Declared 26 November 2010 | $NO_2$ Annual Mean | The Royal Oak, 1-23 Bond End and 104-138 High Street, Knaresborough | No | 53.6 | Not exceeded 30.3 | 5 years | NYC AQAP Sept 2024 | Local air quality management \| North Yorkshire Council |
| AQMA 2 Harrogate AQM No. 1 Order 2017 Wetherby Rd, Harrogate | Declared 4 October 2017 | $NO_2$ Annual Mean | The Flat above 110 Wetherby Road | No | 46.4 | Not exceeded 27.7 | 6 Years | NYC AQAP Sept 2024 | Local air quality management \| North Yorkshire Council |
| AQMA 6 AQMA No. 1 New Street, Selby | Declared 29 February 2016 | $NO_2$ Annual Mean | An area encompassing a section of New Street and several properties flanking the road between Selby Abbey and the junction with Ouse Gate. | No | 55 | Not exceeded 37.7 | 3 years | NYC AQAP Sept 2024 | Local air quality management \| North Yorkshire Council |

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| AQMA 8 Scarborough AQMA | Declared 1 August 2004, Amended 29 August 2018 (reported on UK-AIR) | $PM_{10}$ Annual Mean | The majority of the village of Staithes | No | n/a Affected by salt crystals | No data | 6 years minimum | NYC AQAP Sept 2024 | Local air quality management \| North Yorkshire Council |

☒ **North Yorkshire Council confirm the information on UK-Air regarding their AQMA(s) is up to date.**

☒ **North Yorkshire Council confirm that all current AQAPs have been submitted to Defra.**

## 2.2 Progress and Impact of Measures to address Air Quality in North Yorkshire Council

Defra's appraisal of last year's ASR concluded:

- Based on evidence provided by NYC, the conclusion in the report were accepted for all sources and pollutants. The first combined ASR 2024 for NYC was accepted at first submission.
- Any formatting or administrative issues raised in the appraisal have been addressed this year. Clarification of AQMA naming convention, ensuring consistency with other tables in the report.
- Additional monitoring and mitigation measures should be considered within AQMA 6 (Selby) to reduce $NO_2$ concentrations in this area. This was reviewed in the AQAP submitted in Sept 2024 and further actions and measures are also discussed in this year's ASR – see measures Table 2.2 where a town regeneration project is underway.
- Mapping and illustrating the boundaries of the AQMAs was suggested by Defra to further clarify the areas affected. This was addressed at submission of the AQAP and within the maps illustrated in the current ASR.
- NYC have outlined their actions that will be taken to improve air quality in NYC between 2024-2029 in the draft AQAP (as of June 2024) covering all declared 8 AQMAs. This has now been updated, and a final NYC AQAP submitted and approved by Defra going forward over the next 5 years; to include revocations of four AQMAs in September 2024, this also addresses the advice to comply with the LAQM Technical Guidance 2022 in the respect of compliance with the AQO.
- NYC 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 11 measures, completed, in progress or planned are set out in Table 2.2. Where there have been, or continue to be, barriers restricting the implementation of the measure, these are also presented within Table 2.2.
- Strengthened criteria for AQAPs under the Environment Act 2021 is recognised and has been adhered to in the approved AQAP 2024-2029.

- It has also been noted that all tiers of government are now required to collaborate to address exceedances of Air Quality Objectives, this includes County Councils, Mayors and combined authorities, such as, NYC and West Yorkshire Combined Authority (WYCA), where relevant. NYC have established an AQ Steering Group which includes stakeholders from all areas of NYC and any other external parties directly responsible, or not, for the source of emissions to atmosphere. This forum regularly meets on a 3 monthly basis to collaborate on complementary issues, policy and plans affecting air quality.

More detail on these measures can be found in their respective Action Plans; this includes the NYC AQAP 2024-2029. Local air quality management | North Yorkshire Council

An Air Quality Strategy combining the direction and approach for NYC unitary and combined authority body is in discussion, to be finalised and adopted in 2028 which will reflect a framework for the improvement of air quality in our district. This will need to complement the priorities of the new Mayoral Combined Authority with York under mayoral command which includes building more healthy and resilient communities.

There will be several local measures that will continue to be worked on in the former district areas of NYC.

**Completed measures from 2024 are**:

- Measure 1 – Junction improvements and traffic management changes contributed to the reduction in vehicle emissions and the revocation of AQMA 1 in Bedale.
- Measure 11 – Clean Air Day Campaign 2024 was successful in raising the importance and awareness of Air Quality in our district and amongst local schools.
- Completed and approved AQAP, consolidating all previous AQAPs across seven former district areas.
- Revocation of four AQMAs across NYC; a clear demonstration of continued improvements in air quality in North Yorkshire.

**North Yorkshire Council expects the following measures to be completed over the course of the next reporting year**:

- Implementation and monitoring of a broader set of pollutants across NYC utilising the real-time AQ monitors.
- Consolidation of diffusion tube contracts making management easier and more effective.

**North Yorkshire Councils priorities for the coming year are**:

- Continue to review and assess local air quality across North Yorkshire and to fulfil our legal obligations.
- Improve working with stakeholders to influence policy, strategy and guidelines, such as planning to integrate necessary air quality considerations and supplementary guidance for AQ ($PM_{2.5}$) damage costs.
- AQAP to be reviewed to reflect AQMA changes and updated actions that affect the plan.
- Schemes and monitoring of broader pollution levels through AQ monitoring project; this may be expanded to help inform public on the state of AQ in our areas.
- Discussions are taking place to integrate air quality with school climate action plans. To include anti-idling campaigns.
- AQ drop-in sessions for the public have been arranged for next year to be incorporated into Clean Air Day 2026.
- Reviewing development schemes and improvement works.

**North Yorkshire Council worked to implement these measures in partnership with the following stakeholders during 2024**:

- NYC Transport and Highways Department
- Public Health
- Environment Agency
- Yorkshire and Lincolnshire Pollution Advisory Group (YALPAG) who is instrumental in aligning good practice across all member council areas for air quality.

**The principal challenges and barriers to implementation that North Yorkshire Council anticipates facing are**:

- Budgetary constraints and funding
- The York and North Yorkshire Combined Authority Mayoral initiatives; broader and cross-level agendas yet to be established
- Resources

Progress on some measures have been slower than expected due to the re-organisation of the unitary authority divisions, competition for resources and re-prioritisation of projects.

North Yorkshire Council anticipates that the measures stated above and in Table 2.2 will contribute to compliance in all AQMAs.

## Table 2.2 – Progress on Measures to Improve Air Quality

| Measure No. | Measure Title | Category | Classification | Year Measure Introduced in AQAP | Estimated / Actual Completion Date | Organisations Involved | Funding Source | Funding Status | Estimated Cost of Measure | Measure Status | Reduction in Pollutant / Emission from Measure | Key Performance Indicator | Progress to Date | Comments / Barriers to Implementation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Transformation Scheme - Strategic Improvements in towns of Harrogate, Selby, and Skipton) | Traffic Management | Strategic highway improvements, Re-prioritising Road space away from cars, including Access management, Selective vehicle priority, bus priority, high vehicle occupancy lane | 2024 | 2028 | North Yorkshire Council (NYC), Highways, West Yorkshire Combined Authority (WYCA) | Department for Transport and Transforming Cities Fund, NYC, WYCA | Funded | £44.6m | Implementation in Skipton and Selby, Harrogate currently in planning stage | Improved traffic efficiency, reduce idling, implement sustainable transport options | Traffic counts, AQ monitoring, user satisfaction increased, reduced vehicles and emissions output, EV infrastructure and increased walking and cycling options- providing better links to transport across towns. | March 2024 Business case approved, Skipton construction March 2025, estimated completion December 2025. Selby construction to start august / Sept 2025, completion 2028. | Legal Challenges, public opposition, resources, funding and timescales. |
| 2 | Encouraging the use of Electric Vehicles (EV) by providing public charging points | Promoting Low Emission Transport | Procuring alternative Refuelling infrastructure to promote Low Emission Vehicles, EV recharging, Gas fuel recharging | 2019 | 2028 | NYC, highways, street lighting, town councils. | NYC/ Gov funding/ private investment | Part funded | £100k - £500k | Implementation | Reduction in vehicle emissions | Overall, there is a target to install 3000+ 7-22kW charging sockets, to be installed by Summer 2028 | Development and trial of cross pavement charging underway to help with community charging options on street and at home. roll-out of public charging network out to tender. Electric vehicle charging \| North Yorkshire Council | Barriers relate to funding, suitable electrical infrastructure, geography, and resources.<br><br>There has also been activity from the private sector in the last year with supermarkets, such as Sainsbury's, rolling out their own rapid charging network and Zest and Osprey investing in their rapid charging in North Yorkshire, utilising both NYC and private investment. |
| 3 | Provision of Air Quality Information - Air Quality Campaigns and Education - signposting information on walking and cycling groups and other community groups and projects | Public Information | Via Leaflets, social media, NYC Web Site, Advertising | 2024 | ongoing | NYC, Environmental Health, Public Health, Schools, Community Groups, Members | NYC | TBC | | On-going | Reduce NOx emissions from reducing vehicle use and promoting sustainable travel options, anti-idling campaigns | AQ Monitoring, sign-up rate and community campaigns | Local Cycling and Walking Infrastructure Plans (LCWIPs) \| North Yorkshire Council | Resources, funding, Policy and Guidance |
| 4 | Local Transport Plan 4 (LTP4) | Policy Guidance and Development Control | Other policy | 2016 | 2040 | NYC | NYC | n/a | n/a | In Planning | Reduction of traffic emissions | TBC | TBC | The LTP will be updated and replaced in the next 12-18 months with a joint local transport Plan for York and North Yorkshire. |

| Measure No. | Measure Title | Category | Classification | Year Measure Introduced in AQAP | Estimated / Actual Completion Date | Organisations Involved | Funding Source | Funding Status | Estimated Cost of Measure | Measure Status | Reduction in Pollutant / Emission from Measure | Key Performance Indicator | Progress to Date | Comments / Barriers to Implementation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | Streamlining Environmental Permit Inspections | Environmental Permits | Measures to reduce pollution through more thorough PPC Permits Inspections | 2024 | 2026 | NYC, Regulatory Services (Scientific), Operators | NYC | Funded | £10k | In Implementation | Reduced emissions from tighter controls and regular testing and reporting | Risk Assessments/ Compliance with conditions of Permits. | Implementation on-going | Resources and timescales/co-operation from Operators |
| 6 | Taxi Inclusive Service Plan and General Policy Review | Promoting Low Emission incentives | Taxi emission incentives and licensing conditions | 2024 | 2030 | NYC, Licensing, Executive Members | NYC | Funded | TBC | In planning | Hackney Carriage and Private hire/wheelchair access vehicle or zero emission vehicle | Adoption and numbers of vehicles compliant by 2030 | Consultation completed April 2025 | Economic challenges /Adoption numbers |
| 7 | Enforcement of the Air Quality (domestic Solid Fuel Standards) (England) Regulations 2020 | Public Information | Via the internet | 2023 | 2040 | NYC – Trading Standards – Env. Health / DEFRA | NYC | n/a | n/a | Implementation | | Enforcement numbers | In Progress | All sellers identified in NYC area. Continued advice during 2024/25 to achieve compliance for sellers and the General Public. A review will then take place on any non-compliance and (subject to funding) a test purchase prog. undertaken, with a view to escalation of formal action. |
| 8 | Clean Air Day | Public Information | Via Leaflets, social media, NYC Web Site, Advertising | 2024 | 2025 | NYC/Public Health/ Scientific Team/Schools/Community Groups | NYC | Funded | < £10k | In plan/ 19th June 2025 | | Sign up rate/ public awareness | In plan/Annual Event | Resources |
| 9 | Replacing conventional NYC fleet vehicle with EV/other alternatives. | Promoting low emission transport | Company vehicle procurement/ conversions | 2019 | 2040 | NYC | NYC | Part funded | >500k | In Progress | TBA | Staff mileage reduction, reduced emissions from ICE's / cost savings | Development of a rapid charging strategy to better support enroute fleet charging. As well as a study reviewing options for fleet vehicle replacement with low carbon transport options, which is due to conclude in September. Project/study to consider green hydrogen options for larger fleet vehicles. | Funding, geography, infrastructure limitations |
| 10 | Adopted Local Plan for North Yorkshire | Policy Guidance and Development control | Air quality planning and policy guidance | Sept 2024 | Adoption 2028 | NYC, Third Parties, Public, City of York Council, North York Moors National Park, Neighbourhood Councils, Public | NYC | TBA | TBC | In Consultation | TBA | Adoption | Call for sites for the North Yorkshire Local Plan \| North Yorkshire Council The North Yorkshire Local Plan \| North Yorkshire Council | Legal Challenges, resources, (people and space), uncertainty, Policy, Funding, |
| 11 | Air Quality Strategy | Policy Guidance and Development Control | Air Quality Planning and Policy Guidance | 2025 | 2028 | NYC - Public Health, Environmental Health | NYC | n/a | n/a | In planning | TBA | TBA | In Plan | |

## 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 Strategy[6], 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 UK Governments annual mean concentration target for the end of 2040 for $PM_{2.5}$ is 10µg/$m^3$ and this is not to be exceeded at any monitoring station.

North Yorkshire Council is taking the following measures to address $PM_{2.5}$:

- The NYC website provides residents with information on stoves, open fires, and seasoned wood, as these have been identified as an increasing source of $PM_{2.5}$ across the country. There are several smoke control areas in the NYC area, covering parts of Harrogate, Selby and Skipton, and the villages of South Milford, Sherburn in Elmet, Tockwith, Thorpe Willoughby, Cross Hills and Sutton in Craven. The smoke control areas have been in place for some time, but this enables pro-active monitoring and enforcement action, should a breach of the smoke control legislation be identified. No warning letters or penalty fines were issued by NYC in 2024 for smoke control violations.
- Defra are currently looking for additional locations in England to enhance national air quality monitoring, to increase the evidence base for $PM_{2.5}$. Locations in Harrogate and Scarborough were being considered; Harrogate has since become operational.
- Continuous $PM_{2.5}$ monitoring has been carried out by some neighbouring councils such as City of York Council, Leeds City Council, Stockton Borough Council and Middlesbrough Council. The monitoring has shown annual averages for 2024 ranging from 6.81 to 8.89µg/$m^3$. Continuous $PM_{2.5}$ monitoring is also carried out at a rural background site at High Muffles in the Ryedale area of Stape, and in 2024 the concentration recorded was 4.65 µg/$m^3$. Concentrations in North Yorkshire could

[6] Defra. Air Quality Strategy – Framework for Local Authority Delivery, August 2023

therefore be reasonably expected to be under 8.0µg/$m^3$, with concentrations potentially as low as 4.65µg/$m^3$ in some rural areas. This strongly suggests that the levels in the NYC area already meet the 2040 target.

- NYC has been working on a project to install real-time monitors at strategic locations across our locality. Current progress includes the installation of 3 EarthSense Zephyrs at Station Parade Harrogate, Bond End Knaresborough and the village of Staithes in Scarborough. A further six Aeroqual AQS1 monitors are in the process of being installed in Northallerton, Malton, Richmond, Harrogate, Selby and Whitby. Once up and running the monitors will provide real time data on $PM_{2.5}$, $PM_{10}$, $NO_2$, $SO_2$ which will provide data and better understanding on these pollutants in our area.

The Public Health Outcomes Framework (PHOF), a department of Health data tool for England intended to focus public health action on increasing health life expectancy and reducing differences in life expectancy between communities, uses indicators to assess improvements. Due to the significant impact that poor air quality can have on health, the PHOF includes an indicator relating to $PM_{2.5}$. This is PHOF indicator D01 Fraction of mortality attributable to particulate air pollution (new method).

Estimates of mortality in England (2023 data) range from 3.3% (Isles of Scilly) to 7.4% (City of London). For the North Yorkshire Unitary Authority, the indicator value is 4.2%, which is lowest in the Yorkshire and Humber region. The average for England is 5.8%.

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

This section sets out the monitoring undertaken within 2024 by North Yorkshire Council 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

North Yorkshire Council does not undertake automatic (continuous) monitoring at any of our locations. Further information about monitoring networks and other resources about air pollution are available on the Defra UK AIR website found here: Home - Defra, UK

### 3.1.2 Non-Automatic Monitoring Sites

North Yorkshire Council undertook non-automatic (i.e. passive) monitoring of $NO_2$ at 209 sites, using 222 diffusion tubes during 2024. Table A.1 in Appendix A presents the details of the non-automatic sites. There were no co-located diffusion tube sites. A national bias adjustment factor (0.84) was used to calculate the annual mean (µg/m$^3$) for 71 diffusion tubes that were analysed by Gradko with a method of 20% TEA in Water. A national bias adjustment factor (0.78) was used to calculate the annual mean (µg/m$^3$) for 151 diffusion tubes that were analysed by Socotec. No local bias adjustment factor was used.

Maps showing the location of the monitoring sites are provided 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 ($NO_2$)

There are no exceedances of the air quality objectives for $NO_2$ in any of the diffusion tube locations, inside or outside of AQMAs. The monitoring data for 2024 has led us to review two AQMAs where the data reported has presented compliance with the AQO's for a number of years. AQMA 1 (Bond End, Knaresborough) has achieved compliance with the objective of 40µg/$m^3$ for five years, but not more than 10% below the objective for 3 years. AQMA 2 (Wetherby Road, Harrogate) has achieved compliance for 5 years and has more than 3 years at more than 10% below the objective; currently under review for revocation.

Table A.2 in Appendix A compares the ratified and adjusted monitored $NO_2$ annual mean concentrations for the past five years with the air quality objective of 40µg/$m^3$. Note that the concentration data presented represents the concentration at the location of the monitoring site, not at the receptor, 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. Please note that the concentration data presented in Table B.1 includes distance corrected values, only where relevant.

This commentary mostly relates to the monitoring results for nitrogen dioxide ($NO_2$) . Commentary is also given in relation to $PM_{10}$ connected with the AQMA in **Staithes**. The results for all monitoring sites are below the annual AQO of 40µg/$m^3$ for $NO_2$.

NB. Annual mean concentrations of less than 60µg/$m^3$ are also unlikely to have breached the hourly mean AQO.

Most monitored sites have shown a general downward trend of $NO_2$ values over the last 5 years (See Table A.2). This will partly have been due to improvements in traffic flow combined with the increasing numbers of electric vehicles on the roads and the start-stop technology on modern vehicles, combined with the impact of the Covid lockdown(s) and changing working habits (working from home (WFH); although summary statistics by the Department for Transport suggest a rising return to pre pandemic levels of vehicles on the roads.

The majority of monitoring sites analysed during 2024 will continue for 2025, although the numbers and locations of monitoring sites across the NYC area will be reviewed during 2025 to ensure optimal placement and better monitoring of targeted intervention areas. At the beginning of 2025 NYC consolidated diffusion tube suppliers to provide consistency across reporting and simplify the management of contracts.

### 3.2.2 Particulate Matter (PM10)

NYC have not monitored particulate matter ($PM_{10}$) within or outside of AQMAs over previous years. As part of the monitoring required within the AQMA for Staithes, monitoring at this AQMA was re-instated for $PM_{10}$ during 2025, to gather sufficient data to provide a case for revocation of the AQMA; this was previously declared in relation to the burning of domestic solid fuel for primary heating. However, since 2018 the housing association in the AQMA area has undertaken a timely update of heating systems, moving to electric, so it is anticipated that this will have had a significant positive impact on air quality in the area. Following Defra's request to clarify the AQ standards in this AQMA, NYC have implemented a real-time EarthSense Zephyr monitor and will report on the AQ standards in the next ASR. Although the Zephyr being used does not conform to the European Reference Method Standards, the monitor is MCERTS accredited for particulates and will give a good indication of the levels present with the AQMA. To be reported on in the next ASR.

### 3.2.3 Particulate Matter (PM2.5)

NYC did not monitor particulate matter ($PM_{2.5}$) within or outside of AQMAs during 2024, however, a project to implement real-time AQ sensors at strategic points across the district will give us additional data on various pollutants, filling the gaps where diffusion tubes cannot provide equivalent data. Whilst the low cost AQ sensors do not comply with the European reference method, it will provide a useful indication of levels and trends of pollutants.

### 3.2.4 Sulphur Dioxide (SO2)

NYC are not currently monitoring Sulphur Dioxide ($SO_2$) within or outside of AQMAs.

## 3.3 District Diffusion Tube Round-up

The following is a summary of the 2024 diffusion tube monitoring results for nitrogen dioxide ($NO_2$) in each of the key district areas of North Yorkshire Council.

**Selby Locality**

The Air Quality Management Area #6 (AQMA No. 1 New Street, Selby) as seen in Table 2.1 remains in place, declared due to transport related sources of pollution. Whilst all the monitored levels report concentrations below the AQO of **40µg/m$^3$**, not all locations achieve levels of 10% below the objective (**36µg/m$^3$**), as required.

The concentrations at all locations within the Selby AQMA have decreased in 2024. The highest recorded concentration remains at a triplicate monitoring location S7 (21 new Street), with a concentration of 37.7µg/m$^3$, which has still reduced from previous levels but is above the required 10% below the AQO. The majority of locations were below 30µg/m$^3$, with only 2 above 30µg/m$^3$, S7 and S4).

Significantly, there were no increases in concentrations of $NO_2$ at any other monitoring location in the Selby area, which is an improvement on the previous year's results.

Measure 1 in table 2.2 highlights the interventions that are underway to address the town regeneration and strategic highway improvements in Selby which re-prioritising of road space away from car use, including access management, selective vehicle and bus priorities and high vehicle occupancy lanes. This is expected to have a positive effect on improving traffic flows in the town, which plays a crucial role in reducing the pollutant levels in the AQMA. To be reported on in more detail in the 2026 ASR.

**Richmond Area**

There are no declared AQMAs in this area. Most tube monitoring locations within the Richmond study report decreased concentrations of $NO_2$, except for diffusion tubes R12, R13, and R18, which line the junction of Maison Dieu and Darlington Road. This location has seen multiple road works and associated traffic lights during 2024 which causes a backup of queuing traffic at busy times of the day.

The highest annual mean recorded for Richmond was at R11, 7 Gallowgate, with a concentration of 20.9µg/m$^3$ – also closely located near the above referenced tube locations in Maison Dieu and affected by the ongoing roadworks and 3-way traffic light system. This road is classically canyon like with a narrow single carriageway uphill section

of the town. Results in 2024 are still a decrease of more than 9% when compared to 2023 monitoring.

**Harrogate Locality**

AQMA1 (Table 2.1): AQMA (No.1) (Bond End), **Knaresborough**
The concentrations in this AQMA are more than 10% below the AQO of 40µg/m$^3$ for all monitoring locations. The highest level recorded was at H13 with a concentration of 30.3µg/m$^3$. Concentrations have decreased at all monitoring locations within the AQMA during 2024.

This AQMA has now achieved compliance with the AQO of 40µg/m$^3$ for five consecutive years, however, there have only been 2 years where all diffusion tube locations have been more than 10% under the AQO (36µg/m$^3$). We propose to monitor for another year and will review the 2025 results prior to making any decision about revoking the AQMA.

AQMA2 (Table 2.1) AQMA (No.1) (Wetherby Road) **Harrogate**

Concentrations at tube locations in this AQMA remain 25% below the AQO of 40µg/m$^3$, so below 30µg/m$^3$. This is the sixth year that there have been no exceedances of the annual mean objective for $NO_2$ and 5 years compliance with 10% below the AQO. We therefore propose to revoke this AQMA.

In 2024 North Yorkshire Council revoked two AQMAs at Low/High Skellgate, Ripon (AQMA3) and York Place, Knaresborough (AQMA4). Diffusion Tube Monitoring in these areas continue, however. Concentrations in both former AQMA's remain 30% below the AQO.

$NO_2$ concentrations in the remainder of the Harrogate area decreased at the majority of locations, there were five monitoring points at which concentrations increased.

**Ryedale Locality**

In 2024 North Yorkshire Council revoked the AQMA at Malton (AQMA7). Monitoring in these areas has continued with a continued restriction on HGV vehicles in the area. Concentrations remain 35% below the air quality objective.

The highest bias adjusted annual mean concentration for 2024 was measured at RYE9 Yorkersgate at 25.6µg/m³.

Concentrations in 2024 decreased at 13 monitoring locations within the Ryedale network from the 2023 results, and increased at 9 monitoring locations, with 8 locations increasing by less than 5%. RYE9 Yorkersgate saw an increase of 17.3% from 21.8 µg/m³ in 2023 to

25.6 µg/m³. This is still lower than the 2020, 2021 and 2022 concentrations at RYE9 which were 26.8 µg/m³, 26.3 µg/m³, 26.1 µg/m³ respectively.

**Craven Locality**

There are no AQMAs declared in this area and no significant issues to report with the twelve diffusion tubes monitoring $NO_2$ in this area.

The highest annual mean result, bias adjusted for 2024 was at C5 (Crosshills) recording 21.4µg/m3 which is a reduction of 0.1µg/$m^3$ from 2023.

**Hambleton Locality**

There are no AQMAs declared in this area, and concentrations have decreased at the majority of locations within the study. Where some $NO_2$ concentrations have increased these are in isolated monitoring locations, there is no one cluster area that has an increase at all diffusion tube sites. The highest concentration has been recorded at HDC34, Westgate, Thirsk with a concentration of 26.3µg/$m^3$.

Monitoring for HDC3 Bankhead Road, Northallerton was discontinued from June 2024; this was reporting consistent low levels and unnecessary.

A new monitoring tube HDC70 was located at The Crossings, Northallerton from August 2024 due to concerns about standing traffic caused by rail traffic interrupting road activity and confining roundabout locations in the area and social housing adjacent to the roadside.

In 2024 North Yorkshire Council revoked the AQMA at Bedale (AQMA5). Monitoring in this area continues. Concentrations remain at less than 43% of the objective.

**Scarborough Locality**

AQMA8 (Table 2.1) **Staithes**

As part of the Air Quality Action Plan, NYC has re-visited the AQMA within the village of Staithes for the previous exceedance of the annual mean objective for PM10. Following discussion with Defra and the LAQM officers it was recommended that we re-instate the monitoring of particulate matter (PM10) to report on and evidence that pollution control measures in this area (in relation to Solid Fuel use) have been effective. The AQMA remains in place, and monitoring commenced using an EarthSense Zephyr in February 2025.

Diffusion tube monitoring and $NO_2$ concentrations have decreased at all locations within the Scarborough study. SC14, Strawberry Court, recorded the highest concentration at 25.6µg/$m^{3.}$

**Absent Data and Tubes across NYC**

There has been some absent data for some diffusion tubes for one or more months (often due to weather conditions, tampering, missing lampposts and/or brackets). This is evidenced in Table B.1; in these cases, however, this has had a negligible effect on the overall data captured.

For the 2024 monitoring period there were:

- 40 diffusion tube locations that were missing one month of data (HDC5, HDC61, HDC34, HDC30, RYE123, RYE5, RYE9, RYE13, RYE17, RYE19, RYE24, H5, H8, H10, H14, H18, H27, H44, H47, H62, H67, 3N, S1, S11, S29, S32, S34, S30, S23, S24, C4, C12, SC1, SC3, SC4, SC5, SC6, SC12, SC25, SC27).
- 12 locations were missing two months of data (RYE7, H23, H25, H50, H51, 9N, S6, S5c, S27, S35, SC21, SC22).
- 9 locations were missing three months of data (H2, H16, H26, H53, 4N, S5a, S7c, SC8, SC10).
- 4 tube locations were missing 4 months of data (H63, S10, S33, SC19).
- 1 tube location was missing 6 months of data (S5b).

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

In the Hambleton and Ryedale areas the monitoring results from December 2024 appeared to be inconsistent with normal monitoring patterns (extremes of concentrations). Following discussions with other local authorities and Defra the whole month has been excluded from the study. There are other occasions throughout the year where anomalous figures have been removed.

**New/Discontinued Tube Locations:**

A new diffusion tube location has been established for 2024, namely HDC69 located at 1 Foundry Way, Leeming Bar, which will assist in monitoring increased traffic emissions due to a new supermarket planned for this area. Another diffusion tube location was established in 2024, namely HDC70 at the Railway crossing at Northallerton, which will monitor traffic emissions due to barrier down time and any resultant potential congestion.

Additionally, two new monitoring locations were added in 2024 located on The Stray, Wetherby Road, Harrogate (H70) where Highways are proposing to install a Toucan Crossing and the other on The Stray, close to Oatlands Drive, Harrogate (H71) where Highways are proposing to install a Tiger crossing to assist with pedestrian crossings as part of the active plan. Only seven months data has been collected for monitoring location H70 and six months data for H71, so these results have been annualised.

The locations of these diffusion tubes are shown in Appendix D.

# Appendix A: Monitoring Results

## Table A.1 – Details of Non-Automatic Monitoring Sites

**Diffusion Tube ID Key:**

**R – Richmondshire, HDC – Hambleton, RYE – Ryedale, H – Harrogate, S or N –Selby, C – Craven, SC – Scarborough**

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| R2 | Queens Road Roundabout | Roadside | 417180 | 501125 | $NO_2$ | No | 8.0 | 1.8 | No | 2.5 |
| R3 | Darlington Road | Roadside | 418066 | 501490 | $NO_2$ | No | 22.0 | 1.4 | No | 2.6 |
| R4 | White Rose Crescent | Urban Background | 418504 | 501455 | $NO_2$ | No | 11.0 | 1.7 | No | 2.5 |
| R6 | Gatherley Moor Farm | Roadside | 419207 | 506509 | $NO_2$ | No | 0.0 | 8.0 | No | 2.0 |
| R8 | 15 Queens Road | Roadside | 417179 | 501127 | $NO_2$ | No | 7.0 | 2.4 | No | 2.8 |
| R10 | Oglethorpe | Roadside | 417381 | 501281 | $NO_2$ | No | 1.7 | 1.7 | No | 2.7 |
| R11 | 7 Gallowgate | Roadside | 417377 | 501317 | $NO_2$ | No | 0.0 | 3.3 | No | 2.7 |
| R12 | 1 Anchorage Hill | Roadside | 417542 | 501275 | $NO_2$ | No | 3.5 | 1.8 | No | 2.7 |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| R13 | 3 Maison Dieu | Roadside | 417536 | 501258 | $NO_2$ | No | 0.0 | 1.4 | No | 2.7 |
| R15 | 2 Maison Dieu | Roadside | 417500 | 501263 | $NO_2$ | No | 0.0 | 1.6 | No | 2.8 |
| R16 | 74 Frenchgate | Roadside | 417451 | 501269 | $NO_2$ | No | 0.0 | 1.5 | No | 2.7 |
| R17 | 95 Frenchgate | Roadside | 417370 | 501262 | $NO_2$ | No | 2.0 | 1.5 | No | 3.0 |
| R18 | 26 Darlington Road | Roadside | 417661 | 501297 | $NO_2$ | No | 3.5 | 1.7 | No | 2.7 |
| R19 | 43 Frenchgate | Roadside | 417312 | 501037 | $NO_2$ | No | 0.0 | 1.8 | No | 2.7 |
| R20 | 16 Catterick Road Catterick Garrison | Roadside | 420754 | 498280 | $NO_2$ | No | 0.0 | 1.8 | No | 2.7 |
| HDC28 | Bridge Street Bedale (S1) | Roadside | 426733 | 488169 | $NO_2$ | No | 1.0 | 1.5 | No | 3.0 |
| HDC29 | White Bear Hotel Bedale (S2) | Roadside | 426702 | 488141 | $NO_2$ | No | 0.0 | 1.5 | No | 3.5 |
| HDC30 | Commerce House Bedale (S3) | Roadside | 426681 | 488132 | $NO_2$ | No | 18.0 | 4.5 | No | 3.0 |
| HDC4 | Northallerton South Parade | Roadside | 436558 | 493326 | $NO_2$ | No | 0.0 | 3.0 | No | 3.0 |
| HDC3 | Northallerton Bankhead Road | Suburban | 437714 | 493626 | $NO_2$ | No | 6.0 | 1.5 | No | 3.0 |
| HDC2 | Northallerton Pennine View | Suburban | 435858 | 492676 | $NO_2$ | No | 7.0 | 3.0 | No | 3.0 |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HDC5 | Thirsk | Suburban | 442384 | 481510 | $NO_2$ | No | 7.5 | 1.5 | No | 3.0 |
| HDC6 | Easingwold | Suburban | 453011 | 469267 | $NO_2$ | No | 6.0 | 2.0 | No | 3.0 |
| HDC7 | Bedale | Suburban | 427096 | 487894 | $NO_2$ | No | 10.0 | 2.5 | No | 3.0 |
| HDC8 | Great Ayton Rosehill | Suburban | 456243 | 510859 | $NO_2$ | No | 4.0 | 2.0 | No | 3.0 |
| HDC10 | Aiskew | Roadside | 427530 | 488821 | $NO_2$ | No | 1.0 | 2.5 | No | 3.5 |
| HDC61 | Great Ayton Newton Road | Roadside | 456345 | 511088 | $NO_2$ | No | 4.0 | 2.0 | No | 3.0 |
| HDC62 | Morton on Swale | Roadside | 432463 | 491936 | $NO_2$ | No | 2.2 | 1.5 | No | 3.0 |
| HDC63 | Skipton on Swale | Roadside | 436652 | 479787 | $NO_2$ | No | 3.0 | 1.5 | No | 3.0 |
| HDC64 | Shipton by Benningbrough | Roadside | 455278 | 458663 | $NO_2$ | No | 3.2 | 1.5 | No | 3.0 |
| HDC53 | York Vale House (S1) | Roadside | 437037 | 493967 | $NO_2$ | No | 4.7 | 2.5 | No | 3.0 |
| HDC54 | Grosvenor House, East Road (S2) | Roadside | 437039 | 493873 | $NO_2$ | No | 8.0 | 2.0 | No | 3.0 |
| HDC55 | 5 Crosby Road (S3) | Roadside | 437121 | 493879 | $NO_2$ | No | 1.8 | 1.8 | No | 3.0 |
| HDC56 | 9 Crosby Road (S4) | Roadside | 437140 | 493852 | $NO_2$ | No | 2.1 | 1.4 | No | 3.0 |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HDC57 | 16 Crosby Road (S5) | Roadside | 437176 | 493762 | $NO_2$ | No | 2.4 | 1.7 | No | 3.0 |
| HDC12 | Masons Arms | Roadside | 436885 | 494104 | $NO_2$ | No | 4.5 | 2.0 | No | 3.0 |
| HDC13 | Hunt and Wrigley | Roadside | 436877 | 494087 | $NO_2$ | No | 16.0 | 4.0 | No | 3.0 |
| HDC14 | Grande | Roadside | 436886 | 494091 | $NO_2$ | No | 16.0 | 4.0 | No | 2.5 |
| HDC15 | The Tithe | Roadside | 436933 | 494101 | $NO_2$ | No | 4.0 | 5.5 | No | 3.0 |
| HDC16 | Uno Momento | Roadside | 436950 | 494105 | $NO_2$ | No | 4.0 | 5.0 | No | 3.0 |
| HDC17 | Odana | Roadside | 436963 | 494107 | $NO_2$ | No | 5.0 | 4.5 | No | 3.0 |
| HDC65 | North Moor Road (S1) | Roadside | 436156 | 496385 | $NO_2$ | No | 4.0 | 1.5 | No | 3.0 |
| HDC66 | North Moor Road (S2) | Roadside | 436492 | 495337 | $NO_2$ | No | 3.5 | 1.5 | No | 3.0 |
| HDC67 | North Moor Road Bridge (S3) | Roadside | 437039 | 495291 | $NO_2$ | No | 3.5 | 1.5 | No | 3.0 |
| HDC68 | Portland Road Junction (S4) | Roadside | 437182 | 495273 | $NO_2$ | No | 2.6 | 1.5 | No | 3.0 |
| HDC39 | Northallerton A684 (S1) | Roadside | 437109 | 494970 | $NO_2$ | No | 13.7 | 2.7 | No | 3.0 |
| HDC40 | Northallerton A684 (S2) | Roadside | 437083 | 494958 | $NO_2$ | No | 13.0 | 1.8 | No | 3.0 |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HDC41 | Northallerton A684 (S3) | Roadside | 436988 | 494596 | $NO_2$ | No | 8.7 | 1.6 | No | 3.0 |
| HDC42 | Northallerton A684 (S4) | Roadside | 436999 | 494584 | $NO_2$ | No | 7.8 | 3.0 | No | 3.0 |
| HDC43 | Northallerton A684 (S5) | Roadside | 436995 | 494515 | $NO_2$ | No | 8.8 | 3.6 | No | 3.0 |
| HDC44 | Northallerton A684 (S6) | Roadside | 436973 | 494436 | $NO_2$ | No | 7.0 | 3.0 | No | 3.0 |
| HDC45 | Northallerton A684 (S7) | Roadside | 436975 | 494395 | $NO_2$ | No | 8.0 | 2.8 | No | 3.0 |
| HDC46 | Northallerton A684 (S8) | Roadside | 436934 | 494296 | $NO_2$ | No | 5.5 | 2.7 | No | 3.0 |
| HDC47 | Northallerton A684 (S9) | Roadside | 436923 | 494220 | $NO_2$ | No | 2.5 | 2.6 | No | 3.0 |
| HDC48 | Northallerton Quaker Lane (S10) | Roadside | 436973 | 494519 | $NO_2$ | No | 11.4 | 1.7 | No | 3.0 |
| HDC49 | Northallerton Quaker Lane (S11) | Roadside | 436907 | 494500 | $NO_2$ | No | 6.5 | 1.6 | No | 3.0 |
| HDC50 | Northallerton Quaker Lane (S12) | Roadside | 436717 | 494395 | $NO_2$ | No | 5.0 | 1.8 | No | 3.0 |
| HDC51 | Northallerton Quaker Lane (S13) | Roadside | 436691 | 494388 | $NO_2$ | No | 2.3 | 0.2 | No | 3.0 |
| HDC52 | Northallerton Quaker Lane (S14) Windsor | Roadside | 436680 | 494362 | $NO_2$ | No | 0.0 | 2.0 | No | 3.0 |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HDC33 | 11 Westgate Thirsk (S1) | Roadside | 442783 | 481896 | $NO_2$ | No | 0.0 | 1.0 | No | 3.0 |
| HDC34 | 27 Westgate Thirsk (S2) | Kerbside | 442815 | 481915 | $NO_2$ | No | 2.0 | 0.5 | No | 3.0 |
| HDC35 | 2 Castlegate Thirsk (S3) | Roadside | 442871 | 481943 | $NO_2$ | No | 1.0 | 3.0 | No | 3.0 |
| HDC59 | HDC59 6 Thirsk Road (S2) | Roadside | 436893 | 493526 | $NO_2$ | No | 1.0 | 1.5 | No | 3.0 |
| HDC60 | 7 Thirsk Road (S3) | Roadside | 436879 | 493572 | $NO_2$ | No | 1.0 | 2.0 | No | 3.0 |
| HDC69 | 1 Foundry Way Leeming Bar | Roadside | 436461 | 493175 | $NO_2$ | No | 0.6 | 1.5 | No | 2.5 |
| HDC70 | Northallerton The Crossings (est. July 24) | Roadside | 428885 | 490128 | $NO_2$ | No | 2.6 | 2.0 | No | 2.5 |
| RYE1, RYE2, RYE3 | Yorkersgate, Butcher Corner, Malton 3 (NAS3) | Kerbside | 478844 | 471733 | $NO_2$ | No | 0.9 | 3.0 | No | 3.0 |
| RYE4 | Wheelgate (1) Malton (NAS4) | Roadside | 478843 | 471596 | $NO_2$ | No | 0.0 | 2.8 | No | 2.7 |
| RYE5 | Old Maltongate (1) Malton (NAS5) | Roadside | 479028 | 471541 | $NO_2$ | No | 1.1 | 0.5 | No | 3.0 |
| RYE6 | Castlegate (1) Malton (NAS6) | Roadside | 479869 | 470761 | $NO_2$ | No | 0.0 | 2.0 | No | 2.7 |
| RYE7 | Castlegate (2) Malton (NAS7) | Kerbside | 478661 | 471630 | $NO_2$ | No | 0.2 | 2.0 | No | 3.3 |

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|---|---|---|---|---|---|---|---|---|---|---|
| RYE8 | Norton, 13 Kingston Rd. (NAS8) | Urban Background | 479668 | 471463 | $NO_2$ | No | 9.0 | 2.0 | No | 4.0 |
| RYE9 | Yorkersgate (1) Malton (NAS9) | Roadside | 478552 | 471609 | $NO_2$ | No | 2.2 | 0.5 | No | 3.0 |
| RYE10 | Scarborough Road, Norton (NAS10) | Roadside | 495854 | 476759 | $NO_2$ | No | 0.0 | 3.1 | No | 3.0 |
| RYE11 | Yorkersgate (2), Malton (NAS11) | Roadside | 485362 | 474416 | $NO_2$ | No | 0.0 | 2.0 | No | 3.0 |
| RYE12 | Sherburn (NAS12) | Kerbside | 479942 | 483826 | $NO_2$ | No | 0.5 | 2.5 | No | 2.2 |
| RYE13 | Rillington (NAS13) | Roadside | 478927 | 471559 | $NO_2$ | No | 18.0 | 3.5 | No | 3.0 |
| RYE14 | Pickering (NAS14) | Kerbside | 461282 | 483821 | $NO_2$ | No | 20.0 | 0.4 | No | 2.5 |
| RYE15 | Castlegate (3), Malton (NAS15) | Roadside | 478608 | 471881 | $NO_2$ | No | 0.0 | 2.4 | No | 2.7 |
| RYE16 | Helmsley (NAS16) | Roadside | 478911 | 471767 | $NO_2$ | No | 11.0 | 0.3 | No | 2.5 |
| RYE17 | Wheelgate (2), Malton (NAS17) | Kerbside | 478440 | 472037 | $NO_2$ | No | 0.0 | 1.7 | No | 2.5 |
| RYE18 | Old Malton Gate (2) Malton (NAS18) | Kerbside | 479120 | 471398 | $NO_2$ | No | 0.0 | 1.5 | No | 3.2 |
| RYE19 | Newbiggin, Malton (NAS19) | Roadside | 479363 | 472468 | $NO_2$ | No | 3.8 | 1.0 | No | 2.5 |

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|---|---|---|---|---|---|---|---|---|---|---|
| RYE20 | Church Street 1, Norton (NAS20) | Roadside | 478792 | 472377 | $NO_2$ | No | 14.5 | 0.5 | No | 2.5 |
| RYE22 | Pasture Lane, Malton (NAS22) | Kerbside | 479288 | 471386 | $NO_2$ | No | 0.0 | 2.0 | No | 3.0 |
| RYE21 | Highfield Road, Malton (NAS21) | Roadside | 479173 | 471281 | $NO_2$ | No | 4.7 | 1.2 | No | 2.5 |
| RYE23 | Church Street 2, Norton (NAS23) | Kerbside | 479288 | 471386 | $NO_2$ | No | 2.3 | 0.8 | No | 2.0 |
| RYE24 | St. Nicholas Street, Norton (NAS24) | Roadside | 479173 | 471281 | $NO_2$ | No | 10.0 | 1.2 | No | 3.0 |
| H1 | 5 Otley Road, Killinghall | Roadside | 428594 | 458666 | $NO_2$ | No | 0.0 | 2.4 | No | 1.8 |
| H2 | 24 Low Skellgate, Ripon | Roadside | 431044 | 471039 | $NO_2$ | No | 0.0 | 1.6 | No | 2.0 |
| H6 | 27 Water Skellgate, Ripon | Roadside | 431189 | 471146 | $NO_2$ | No | 0.0 | 4.8 | No | 2.0 |
| H7 | 1 Low Skellgate, Ripon | Roadside | 431110 | 471124 | $NO_2$ | No | 0.0 | 2.5 | No | 2.0 |
| H8 | 24 High Skellgate, Ripon | Roadside | 431155 | 471216 | $NO_2$ | No | 0.0 | 1.7 | No | 2.1 |
| H9 | 9 High Skellgate, Ripon | Roadside | 431135 | 471186 | $NO_2$ | No | 0.0 | 1.7 | No | 2.6 |
| H10 | 3a Westgate, Ripon | Roadside | 431146 | 471258 | $NO_2$ | No | 0.0 | 1.8 | No | 2.0 |
| H12 | Vale Court, Knaresborough | Roadside | 434715 | 457387 | $NO_2$ | No | 0.0 | 8.1 | No | 1.5 |

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|---|---|---|---|---|---|---|---|---|---|---|
| H13 | 21 Bond End, Knaresborough | Roadside | 434707 | 457368 | $NO_2$ | Yes (Kboro AQMA No.1) | 0.0 | 1.0 | No | 2.2 |
| H14 | 9 Bond End, Knaresborough | Roadside | 434759 | 457375 | $NO_2$ | Yes (Kboro AQMA No.1) | 0.0 | 1.8 | No | 2.0 |
| H16 | 10 Bond End, Knaresborough | Roadside | 434763 | 457388 | $NO_2$ | Yes (Kboro AQMA No.1) | 0.0 | 2.5 | No | 1.8 |
| H17 | 16-18 Bond End, Knaresborough | Roadside | 434725 | 457405 | $NO_2$ | Yes (Kboro AQMA No.1) | 0.0 | 1.5 | No | 1.9 |
| H18 | 10 York Place, Knaresborough | Roadside | 435210 | 456918 | $NO_2$ | Yes (Kboro AQMA No.1) | 0.0 | 3.2 | No | 1.8 |
| H19 | 35 High Street, Knaresborough | Roadside | 435012 | 457084 | $NO_2$ | No | 0.0 | 1.5 | No | 2.4 |
| H20 | 24 High Street, Knaresborough | Roadside | 435133 | 457009 | $NO_2$ | No | 0.0 | 2.3 | No | 2.5 |
| H21 | 10 High Street, Knaresborough | Roadside | 435158 | 456992 | $NO_2$ | No | 0.0 | 1.5 | No | 2.0 |
| H22 | 14 York Place, Knaresborough | Roadside | 435224 | 456913 | $NO_2$ | No | 0.0 | 3.4 | No | 2.1 |
| H23 | 34b High Street, Harrogate | Roadside | 432918 | 455959 | $NO_2$ | No | 0.0 | 3.0 | No | 2.4 |
| H24 | Woodlands Pub, Hookstone Drive | Roadside | 432477 | 454805 | $NO_2$ | Yes (Hgate AQMA No.1) | 0.2 | 2.0 | No | 2.5 |
| H4, H5, H25 | 5 Low Skellgate, Ripon | Roadside | 431087 | 471100 | $NO_2$ | No | 0.0 | 1.5 | No | 2.1 |
| H26 | Woodlands Pub, Wetherby Road | Roadside | 432494 | 454808 | $NO_2$ | Yes (Hgate AQMA No.1) | 0.0 | 1.0 | No | 3.6 |

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|---|---|---|---|---|---|---|---|---|---|---|
| H28 | 77 Harlow Crescent | Urban Background | 429313 | 453820 | $NO_2$ | No | 0.0 | 5.0 | No | 1.9 |
| H29 | Epsom Court, Harrogate | Kerbside | 429534 | 456882 | $NO_2$ | No | 2.3 | 0.2 | No | 2.0 |
| H30 | Wintringham House, High Street, Knaresborough | Roadside | 435137 | 456968 | $NO_2$ | No | 0.0 | 2.3 | No | 2.3 |
| H33 | 207 Skipton Road, Harrogate | Roadside | 430224 | 456727 | $NO_2$ | No | 0.0 | 2.0 | No | 2.1 |
| H34 | Woodlands Pub Lamppost, Wetherby Road | Roadside | 432508 | 454804 | $NO_2$ | Yes (Hgate AQMA No.1) | 4.6 | 1.5 | No | 1.9 |
| H35 | 208 Kings Road, Harrogate | Roadside | 430513 | 456467 | $NO_2$ | No | 2.7 | 2.0 | No | 1.9 |
| H36 | 8-10 Westmoreland Street, Harrogate | Roadside | 430925 | 455804 | $NO_2$ | No | 0.0 | 1.5 | No | 2.0 |
| H37 | 87 Skipton Road, Harrogate | Roadside | 430573 | 456436 | $NO_2$ | No | 0.0 | 8.0 | No | 2.0 |
| H38 | 59 Skipton Road, Harrogate | Roadside | 430647 | 456324 | $NO_2$ | No | 0.0 | 3.0 | No | 1.7 |
| H39 | Devonshire Place, Harrogate | Kerbside | 430995 | 455831 | $NO_2$ | No | 3.0 | 0.6 | No | 1.8 |
| H40 | Vintage Boutique, Westmoreland Street, Harrogate | Roadside | 430935 | 455826 | $NO_2$ | No | 0.0 | 1.5 | No | 2.3 |
| H41 | 16 York Place, Knaresborough | Roadside | 435235 | 456907 | $NO_2$ | No | 0.0 | 3.4 | No | 2.0 |

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|---|---|---|---|---|---|---|---|---|---|---|
| H42 | Taxi Rank, Station Parade, Harrogate | Urban Centre | 430367 | 455339 | $NO_2$ | No | 0.0 | 0.1 | No | 2.1 |
| H43 | 1 Station Square, Harrogate | Urban Centre | 430397 | 455194 | $NO_2$ | No | 0.0 | 0.5 | No | 2.0 |
| H27, H44 | The Old Police House, Walshford | Roadside | 441851 | 453686 | $NO_2$ | No | 0.0 | 12.2 | No | 2.0 |
| H46 | 93 Skipton Road, Harrogate | Roadside | 430535 | 456495 | $NO_2$ | No | 0.0 | 8.6 | No | 1.8 |
| H47 | 43 Woodfield Road, Harrogate | Urban Background | 430800 | 456572 | $NO_2$ | No | 0.0 | 30.8 | No | 1.6 |
| H49 | 29 Bond End, Knaresborough | Roadside | 434623 | 457314 | $NO_2$ | No | 0.0 | 0.9 | No | 2.1 |
| H50 | 55 Bond End, Knaresborough | Roadside | 434578 | 457260 | $NO_2$ | No | 0.0 | 1.9 | No | 2.3 |
| H51 | The Royal Oak, Knaresborough | Roadside | 434796 | 457393 | $NO_2$ | Yes (Kboro AQMA No.1) | 0.0 | 1.3 | No | 2.3 |
| H52 | High Street, Knaresborough | Roadside | 434835 | 457329 | $NO_2$ | Yes (Kboro AQMA No.1) | 0.0 | 2.1 | No | 2.0 |
| H53 | The Old Tannery, York Place, Knaresborough | Roadside | 435253 | 456893 | $NO_2$ | No | 0.0 | 3.4 | No | 2.0 |
| H54 | 30 Low Skellgate, Ripon | Roadside | 431075 | 471077 | $NO_2$ | No | 0.0 | 1.5 | No | 2.7 |
| H55 | 35 Low Skellgate, Ripon | Roadside | 431102 | 471101 | $NO_2$ | No | 0.0 | 2.0 | No | 2.1 |

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|---|---|---|---|---|---|---|---|---|---|---|
| H56 | Crown Court, Ripon | Roadside | 431151 | 471119 | $NO_2$ | No | 0.0 | 3.8 | No | 2.1 |
| H57 | 6 Water Skellgate, Ripon | Roadside | 431193 | 471132 | $NO_2$ | No | 0.0 | 2.3 | No | 2.0 |
| H58 | 17 Water Skellgate, Ripon | Roadside | 431242 | 471135 | $NO_2$ | No | 0.0 | 2.1 | No | 2.2 |
| H15, 59, H60 | 117 High Street, Knaresborough | Roadside | 434804 | 457358 | $NO_2$ | Yes (Kboro AQMA No.1) | 0.0 | 2.6 | No | 1.9 |
| H61 | 13 East Parade, Harrogate | Roadside | 430478 | 455297 | $NO_2$ | No | 1.7 | 2.3 | No | 2.2 |
| H62 | Bilton Lane, Harrogate | Roadside | 430420 | 456798 | $NO_2$ | No | 2.0 | 2.6 | No | 2.0 |
| H63 | 109 Station Parade, Harrogate | Roadside | 430548 | 454832 | $NO_2$ | No | 1.5 | 2.3 | No | 2.0 |
| H64 | Station View, Knaresbrgh Road | Roadside | 432806 | 455899 | $NO_2$ | No | 11.5 | 2.5 | No | 2.0 |
| H67 | Otley Road, Harrogate | Roadside | 429503 | 454275 | $NO_2$ | No | 3.7 | 2.4 | No | 1.9 |
| H70 | Stray, Wetherby Road, Harrogate | Roadside | 431592 | 455297 | $NO_2$ | No | 11.3 | 1.7 | No | 1.9 |
| H71 | Stray, Oatlands Drive, Hgate | Roadside | 431175 | 454782 | $NO_2$ | No | 28.5 | 1.2 | No | 1.9 |
| 9N | Bryony Court | Urban Background | 460899 | 430935 | $NO_2$ | No | 6.0 | 2.0 | No | 2.5 |

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|---|---|---|---|---|---|---|---|---|---|---|
| 4N | Brook St Opposite Ebor Opening | Roadside | 461096 | 432191 | $NO_2$ | No | 5.0 | 1.0 | No | 2.5 |
| 3N | Carentan Close | Urban Background | 460855 | 432820 | $NO_2$ | No | 7.0 | 1.5 | No | 2.5 |
| S6 | Preston Baker/Hairdresser New St | Roadside | 461635 | 432372 | $NO_2$ | Yes - New Street AQMA Order No.1 | 0.0 | 1.5 | No | 2.7 |
| S5a, S5b, S5c | Roko Furniture 3 New St | Roadside | 461659 | 432405 | $NO_2$ | Yes - New Street AQMA Order No.1 | 0.0 | 1.5 | No | 2.5 |
| S7a, S7b, S7c | 21 New St 3 | Roadside | 461688 | 432434 | $NO_2$ | Yes - New Street AQMA Order No.1 | 0.0 | 1.0 | No | 3.0 |
| S2 | Lamp Post 52 New St | Roadside | 461689 | 432422 | $NO_2$ | Yes - New Street AQMA Order No.1 | 5.0 | 1.7 | No | 2.5 |
| S8 | 30 New St | Roadside | 461697 | 432424 | $NO_2$ | Yes - New Street AQMA Order No.1 | 0.0 | 6.0 | No | 3.0 |
| S4 | Eye of Bri New St | Roadside | 461681 | 432407 | $NO_2$ | Yes - New Street AQMA Order No.1 | 0.0 | 1.3 | No | 2.5 |

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|---|---|---|---|---|---|---|---|---|---|---|
| S3a, S3b, S3c | Tutti's 3 New St | Roadside | 461670 | 432408 | $NO_2$ | Yes - New Street AQMA Order No.1 | 0.0 | 1.5 | No | 2.5 |
| S1 | Fringe Hair New St | Roadside | 461638 | 432345 | $NO_2$ | Yes - New Street AQMA Order No.1 | 0.0 | 2.4 | No | 2.5 |
| S11 | Lisa's Florist 10 The Crescent | Roadside | 461507 | 432319 | $NO_2$ | No | 0.0 | 3.0 | No | 3.0 |
| S10 | Greggs Lamppost Gowthorpe | Roadside | 461317 | 432356 | $NO_2$ | No | 0.0 | 1.0 | No | 2.5 |
| S27 | Scott Rd Lamppost 1 | Roadside | 461120 | 432303 | $NO_2$ | No | 2.2 | 2.1 | No | 2.2 |
| S28 | 28 Scott Rd Downpipe | Roadside | 461062 | 432475 | $NO_2$ | No | 2.2 | 3.8 | No | 2.2 |
| S29 | Scott Rd Lamppost 12 | Roadside | 461041 | 432539 | $NO_2$ | No | 2.2 | 2.2 | No | 2.2 |
| S32 | Elm Street Access Sign | Roadside | 461871 | 432643 | $NO_2$ | No | 2.2 | 6.0 | No | 2.2 |
| S34 | Barlby Rd Lamppost 13 | Roadside | 461938 | 432710 | $NO_2$ | No | 2.2 | 2.7 | No | 2.2 |
| S33 | John Street Access Sign | Roadside | 461935 | 432672 | $NO_2$ | No | 2.2 | 6.6 | No | 2.2 |
| S31 | Barlby Rd Lamppost 6 | Roadside | 461852 | 432594 | $NO_2$ | No | 2.2 | 1.9 | No | 2.2 |

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|---|---|---|---|---|---|---|---|---|---|---|
| S30 | Barlby Rd Lamppost 3 | Roadside | 461806 | 432546 | $NO_2$ | No | 2.2 | 2.1 | No | 2.2 |
| S18 | 5B Millgate | Roadside | 461517 | 432582 | $NO_2$ | No | 2.5 | 1.3 | No | 2.5 |
| S19 | 10 Millgate | Roadside | 461526 | 432584 | $NO_2$ | No | 2.5 | 1.6 | No | 2.5 |
| S23 | Lamppost 26 Ousegate | Roadside | 461821 | 432376 | $NO_2$ | No | 2.5 | 0.6 | No | 2.5 |
| S24 | Lamppost 27 Ousegate | Roadside | 461788 | 432379 | $NO_2$ | No | 2.5 | 0.6 | No | 2.5 |
| S25 | Lamppost 28 Ousegate | Roadside | 461762 | 432408 | $NO_2$ | No | 2.5 | 0.6 | No | 2.5 |
| S35 | Park Street | Roadside | 461617 | 432148 | $NO_2$ | No | 4.5 | 2.5 | No | 2.5 |
| C1 | Station Road Bentham | Roadside | 366749 | 469197 | $NO_2$ | No | 0.9 | 1.4 | No | 2.0 |
| C2 | Duke Street Settle | Roadside | 381959 | 463625 | $NO_2$ | No | 0.6 | 1.2 | No | 2.0 |
| C3 | Newmarket Street Skipton | Roadside | 399103 | 451611 | $NO_2$ | No | 0.5 | 1.4 | No | 2.0 |
| C4 | Craven Street Skipton | Roadside | 398820 | 451196 | $NO_2$ | No | 3.9 | 1.5 | No | 2.0 |
| C5 | Main Street Crosshills | Roadside | 400629 | 444999 | $NO_2$ | No | 1.4 | 1.7 | No | 2.0 |
| C6 | Station Road Crosshills | Roadside | 400811 | 445217 | $NO_2$ | No | 6.1 | 1.3 | No | 2.0 |

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|---|---|---|---|---|---|---|---|---|---|---|
| C7 | Broughton Road Skipton | Roadside | 397795 | 451308 | $NO_2$ | No | 2.3 | 1.8 | No | 2.0 |
| C8 | Water Street Skipton | Roadside | 398898 | 451835 | $NO_2$ | No | 0.4 | 1.0 | No | 2.0 |
| C9 | Colne Road Glusburn | Roadside | 400006 | 444760 | $NO_2$ | No | 1.8 | 2.4 | No | 2.0 |
| C10 | High Street Gargrave | Roadside | 393272 | 454225 | $NO_2$ | No | 0.2 | 3.0 | No | 2.0 |
| C11 | Main Street Hellifield | Roadside | 385397 | 456675 | $NO_2$ | No | 2.7 | 2.8 | No | 2.0 |
| C12 | Brown Bank Terrace Crosshills | Roadside | 401212 | 445224 | $NO_2$ | No | 3.5 | 0.8 | No | 2.0 |
| SC1 | Odeon Roundabout, Scarborough | Roadside | 503929 | 488389 | $NO_2$ | No | 0.0 | 2.0 | No | 2.0 |
| SC2 | Ramshill 1, Scarborough | Roadside | 504094 | 487815 | $NO_2$ | No | 1.4 | 2.7 | No | 2.0 |
| SC3 | Ramshill 2, Scarborough | Roadside | 504109 | 487497 | $NO_2$ | No | 8.0 | 2.5 | No | 2.0 |
| SC4 | Main Street, Cayton | Roadside | 505466 | 483378 | $NO_2$ | No | 0.0 | 1.1 | No | 2.0 |
| SC5 | East Ayton 1 | Roadside | 498998 | 484889 | $NO_2$ | No | 0.3 | 1.4 | No | 2.0 |
| SC6 | East Ayton 2 | Roadside | 499023 | 484885 | $NO_2$ | No | 0.4 | 2.2 | No | 2.0 |
| SC7 | Snainton 1 | Roadside | 492186 | 482266 | $NO_2$ | No | 0.1 | 1.0 | No | 2.0 |

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|---|---|---|---|---|---|---|---|---|---|---|
| SC8 | Snainton 2 | Roadside | 492161 | 482291 | $NO_2$ | No | 0.1 | 1.2 | No | 2.0 |
| SC9 | Valley Road Junc. Scarborough | Roadside | 503288 | 487538 | $NO_2$ | No | 7.0 | 3.6 | No | 2.0 |
| SC10 | Spring Bank, Scarborough | Roadside | 503273 | 487523 | $NO_2$ | No | 2.2 | 0.4 | No | 2.0 |
| SC12 | Seamer Road 2, Scarborough | Roadside | 503218 | 487940 | $NO_2$ | No | 1.0 | 2.8 | No | 2.0 |
| SC13 | Falsgrave Road, Scarborough | Roadside | 503088 | 487922 | $NO_2$ | No | 4.4 | 2.9 | No | 2.0 |
| SC14 | Strawberry Court, Scarborough | Roadside | 503045 | 488003 | $NO_2$ | No | 2.1 | 0.5 | No | 2.0 |
| SC15 | Manor Road, Scarborough | Roadside | 502929 | 488227 | $NO_2$ | No | 10.0 | 0.6 | No | 2.0 |
| SC16 | Ruswarp 1 | Roadside | 488913 | 509314 | $NO_2$ | No | 12.0 | 1.9 | No | 2.0 |
| SC17 | Ruswarp 2 | Roadside | 488912 | 509271 | $NO_2$ | No | 0.0 | 1.0 | No | 2.0 |
| SC18 | Dock End, Whitby | Kerbside | 489863 | 510887 | $NO_2$ | No | 0.0 | 0.0 | No | 2.0 |
| SC19 | Downdinner Hill, Whitby 2 | Roadside | 489388 | 510619 | $NO_2$ | No | 10.0 | 1.5 | No | 2.0 |
| SC20 | Prospect Hill, Whitby | Roadside | 489277 | 510331 | $NO_2$ | No | 4.5 | 1.2 | No | 2.0 |
| SC21 | Helredale Road 1, Whitby | Roadside | 490370 | 509314 | $NO_2$ | No | 11.0 | 0.5 | No | 2.0 |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| SC22 | Beulah Terrace, Scarborough | Kerbside | 503741 | 488079 | $NO_2$ | No | 8.0 | 0.0 | No | 2.0 |
| SC24 | Peasholm Drive, Scarborough | Urban Background | 503615 | 489367 | $NO_2$ | No | 14.0 | 4.6 | No | 2.0 |
| SC25 | Bridlington Street | Roadside | 509679 | 477308 | $NO_2$ | No | 0.0 | 2.8 | No | 2.0 |
| SC26 | Murray Street, Filey | Roadside | 511698 | 480664 | $NO_2$ | No | 0.0 | 1.5 | No | 2.0 |
| SC27 | East borough | Kerbside | 504703 | 488799 | $NO_2$ | No | 1.8 | 0.3 | No | 2.0 |
| SC28 | St Nicholas Street, Scarborough | Kerbside | 504357 | 488553 | $NO_2$ | No | 0.0 | 2.0 | No | 2.0 |

**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.2 – 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| R2 | 417180 | 501125 | Roadside | 100.0 | 100.0 | 18.4 | 18.9 | 17.8 | 15.5 | 15.2 |
| R3 | 418066 | 501490 | Roadside | 100.0 | 100.0 | 11.4 | 11.6 | 11.0 | 11.4 | 9.4 |
| R4 | 418504 | 501455 | Urban Background | 100.0 | 100.0 | 5.8 | 5.6 | 5.7 | 4.8 | 4.6 |
| R6 | 419207 | 506509 | Roadside | 100.0 | 100.0 | 15.7 | 17.3 | 16.7 | 16.1 | 14.0 |
| R8 | 417179 | 501127 | Roadside | 90.6 | 90.6 | 19.8 | 21.4 | 20.3 | 18.9 | 17.1 |
| R10 | 417381 | 501281 | Roadside | 100.0 | 100.0 | 23.5 | 24.3 | 22.4 | 21.9 | 19.8 |
| R11 | 417377 | 501317 | Roadside | 100.0 | 100.0 | 26.4 | 27.5 | 25.4 | 23.0 | 20.9 |
| R12 | 417542 | 501275 | Roadside | 100.0 | 100.0 | 16.1 | 17.4 | 16.2 | 14.2 | 15.8 |
| R13 | 417536 | 501258 | Roadside | 100.0 | 100.0 | 15.4 | 17.3 | 17.7 | 14.8 | 15.5 |
| R15 | 417500 | 501263 | Roadside | 100.0 | 100.0 | 16.0 | 18.5 | 18.4 | 15.9 | 14.5 |
| R16 | 417451 | 501269 | Roadside | 100.0 | 100.0 | 22.7 | 23.8 | 22.2 | 20.4 | 18.9 |
| R17 | 417370 | 501262 | Roadside | 100.0 | 100.0 | 17.1 | 18.2 | 17.8 | 17.5 | 15.0 |
| R18 | 417661 | 501297 | Roadside | 100.0 | 100.0 | 16.9 | 18.4 | 17.3 | 15.3 | 16.0 |
| R19 | 417312 | 501037 | Roadside | 100.0 | 100.0 | 15.5 | 17.3 | 16.4 | 16.3 | 13.9 |
| R20 | 420754 | 498280 | Roadside | 92.5 | 92.5 |  | 20.8 | 19.5 | 16.9 | 16.7 |
| HDC28 | 426733 | 488169 | Roadside | 90.6 | 90.6 | 16.5 | 19.1 | 18.5 | 17.1 | 13.7 |
| HDC29 | 426702 | 488141 | Roadside | 90.6 | 90.6 | 22.1 | 23.2 | 18.1 | 13.5 | 12.9 |
| HDC30 | 426681 | 488132 | Roadside | 83.0 | 83.0 | 17.1 | 15.8 | 16.1 | 15.2 | 17.1 |
| HDC4 | 436558 | 493326 | Roadside | 90.6 | 90.6 | 20.2 | 22.8 | 20.7 | 20.0 | 19.8 |
| HDC3 | 437714 | 493626 | Suburban | 100.0 | 49.1 | 9.0 | 7.7 | 7.5 | 7.9 | 6.8 |
| HDC2 | 435858 | 492676 | Suburban | 90.6 | 90.6 | 7.8 | 8.8 | 8.7 | 6.7 | 7.5 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| HDC5 | 442384 | 481510 | Suburban | 81.1 | 81.1 | 9.1 | 8.3 | 9.1 | 7.8 | 8.9 |
| HDC6 | 453011 | 469267 | Suburban | 83.0 | 83.0 | 9.0 | 8.3 | 8.6 | 8.0 | 6.9 |
| HDC7 | 427096 | 487894 | Suburban | 90.6 | 90.6 | 7.2 | 7.0 | 6.7 | 6.1 | 6.0 |
| HDC8 | 456243 | 510859 | Suburban | 90.6 | 90.6 | 7.2 | 7.1 | 7.5 | 5.9 | 5.5 |
| HDC10 | 427530 | 488821 | Roadside | 90.6 | 90.6 | 9.7 | 10.5 | 9.8 | 9.3 | 9.0 |
| HDC61 | 456345 | 511088 | Roadside | 81.1 | 81.1 | 8.5 | 10.7 | 9.7 | 9.9 | 9.0 |
| HDC62 | 432463 | 491936 | Roadside | 83.0 | 83.0 | | | 11.5 | 9.3 | 8.2 |
| HDC63 | 436652 | 479787 | Roadside | 90.6 | 90.6 | | | 11.0 | 10.7 | 9.6 |
| HDC64 | 455278 | 458663 | Roadside | 90.6 | 90.6 | | | 18.4 | 17.1 | 15.8 |
| HDC53 | 437037 | 493967 | Roadside | 81.1 | 81.1 | 17.8 | 19.7 | 17.1 | 14.9 | 14.8 |
| HDC54 | 437039 | 493873 | Roadside | 90.6 | 90.6 | 18.6 | 20.9 | 19.4 | 19.6 | 18.7 |
| HDC55 | 437121 | 493879 | Roadside | 90.6 | 90.6 | 14.3 | 13.0 | 13.4 | 11.5 | 10.1 |
| HDC56 | 437140 | 493852 | Roadside | 90.6 | 90.6 | 16.6 | 14.6 | 13.6 | 13.1 | 11.9 |
| HDC57 | 437176 | 493762 | Roadside | 90.6 | 90.6 | 11.2 | 11.4 | 11.0 | 10.1 | 9.7 |
| HDC12 | 436885 | 494104 | Roadside | 90.6 | 90.6 | 22.5 | 23.7 | 22.5 | 20.8 | 18.5 |
| HDC13 | 436877 | 494087 | Roadside | 90.6 | 90.6 | 24.3 | 24.9 | 25.0 | 22.0 | 20.9 |
| HDC14 | 436886 | 494091 | Roadside | 90.6 | 90.6 | 23.7 | 24.2 | 25.2 | 22.8 | 21.1 |
| HDC15 | 436933 | 494101 | Roadside | 90.6 | 90.6 | 20.7 | 23.0 | 22.5 | 19.6 | 19.0 |
| HDC16 | 436950 | 494105 | Roadside | 90.6 | 90.6 | 20.7 | 22.0 | 22.6 | 20.0 | 17.6 |
| HDC17 | 436963 | 494107 | Roadside | 90.6 | 90.6 | 15.7 | 17.3 | 15.9 | 13.5 | 13.8 |
| HDC65 | 436156 | 496385 | Roadside | 90.6 | 90.6 | | | 13.5 | 12.8 | 13.1 |
| HDC66 | 436492 | 495337 | Roadside | 90.6 | 90.6 | | | 13.6 | 12.1 | 11.8 |
| HDC67 | 437039 | 495291 | Roadside | 90.6 | 90.6 | | | 12.2 | 11.1 | 11.1 |
| HDC68 | 437182 | 495273 | Roadside | 90.6 | 90.6 | | | 12.0 | 10.4 | 11.7 |
| HDC39 | 437109 | 494970 | Roadside | 90.6 | 90.6 | 13.1 | 13.7 | 13.9 | 11.0 | 10.9 |
| HDC40 | 437083 | 494958 | Roadside | 90.6 | 90.6 | 19.9 | 22.1 | 22.8 | 18.1 | 16.5 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| HDC41 | 436988 | 494596 | Roadside | 90.6 | 90.6 | 22.7 | 24.4 | 22.5 | 18.6 | 17.3 |
| HDC42 | 436999 | 494584 | Roadside | 90.6 | 90.6 | 18.1 | 19.9 | 19.3 | 16.3 | 15.8 |
| HDC43 | 436995 | 494515 | Roadside | 90.6 | 90.6 | 21.3 | 22.1 | 22.2 | 18.7 | 17.0 |
| HDC44 | 436973 | 494436 | Roadside | 90.6 | 90.6 | 19.7 | 22.1 | 21.2 | 17.9 | 17.7 |
| HDC45 | 436975 | 494395 | Roadside | 90.6 | 90.6 | 18.2 | 19.6 | 18.9 | 17.0 | 16.6 |
| HDC46 | 436934 | 494296 | Roadside | 90.6 | 90.6 | 20.6 | 23.9 | 21.2 | 19.7 | 19.3 |
| HDC47 | 436923 | 494220 | Roadside | 90.6 | 90.6 | 19.2 | 21.7 | 20.9 | 18.7 | 17.5 |
| HDC48 | 436973 | 494519 | Roadside | 90.6 | 90.6 | 16.9 | 18.9 | 18.1 | 13.9 | 13.0 |
| HDC49 | 436907 | 494500 | Roadside | 90.6 | 90.6 | 14.1 | 14.8 | 14.2 | 11.2 | 9.7 |
| HDC50 | 436717 | 494395 | Roadside | 90.6 | 90.6 | 17.2 | 18.3 | 18.4 | 14.2 | 10.9 |
| HDC51 | 436691 | 494388 | Roadside | 90.6 | 90.6 | 16.2 | 18.7 | 18.3 | 13.8 | 13.3 |
| HDC52 | 436680 | 494362 | Roadside | 90.6 | 90.6 | 16.1 | 17.2 | 17.4 | 13.6 | 12.9 |
| HDC33 | 442783 | 481896 | Roadside | 90.6 | 90.6 | 23.1 | 25.4 | 24.2 | 20.6 | 19.4 |
| HDC34 | 442815 | 481915 | Kerbside | 83.0 | 83.0 | 26.3 | 30.0 | 27.4 | 25.5 | 26.3 |
| HDC35 | 442871 | 481943 | Roadside | 90.6 | 90.6 | 19.8 | 21.2 | 21.4 | 18.5 | 18.3 |
| HDC59 | 436893 | 493526 | Roadside | 90.6 | 90.6 | 16.3 | 16.9 | 22.4 | 21.4 | 20.7 |
| HDC60 | 436879 | 493572 | Roadside | 90.6 | 90.6 | 23.2 | 23.3 | 18.9 | 16.4 | 17.1 |
| HDC69 | 436461 | 493175 | Roadside | 90.6 | 90.6 | | | | | 11.5 |
| HDC70 | 428885 | 490128 | Roadside | 80.0 | 34.0 | | | | | 25.6 |
| RYE1, RYE2, RYE3 | 478844 | 471733 | Kerbside | 90.6 | 90.6 | 24.9 | 25.3 | 23.7 | 23.4 | 22.8 |
| RYE4 | 478843 | 471596 | Roadside | 90.6 | 90.6 | 24.9 | 27.6 | 26.5 | 23.8 | 24.8 |
| RYE5 | 479028 | 471541 | Roadside | 83.0 | 83.0 | 23.4 | 27.1 | 24.8 | 22.0 | 20.3 |
| RYE6 | 479869 | 470761 | Roadside | 83.0 | 83.0 | 19.1 | 18.9 | 19.5 | 18.9 | 18.9 |
| RYE7 | 478661 | 471630 | Kerbside | 75.0 | 75.0 | 24.6 | 26.9 | 25.7 | 25.8 | 24.8 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| RYE8 | 479668 | 471463 | Urban Background | 83.0 | 83.0 | 8.4 | 7.6 | 7.6 | 6.3 | 6.0 |
| RYE9 | 478552 | 471609 | Roadside | 83.0 | 83.0 | 26.8 | 26.3 | 26.1 | 21.8 | 25.6 |
| RYE10 | 495854 | 476759 | Roadside | 90.6 | 90.6 | 16.8 | 17.8 | 17.0 | 15.9 | 14.5 |
| RYE11 | 485362 | 474416 | Roadside | 90.6 | 90.6 | 18.2 | 20.7 | 18.7 | 18.3 | 17.1 |
| RYE12 | 479942 | 483826 | Kerbside | 90.6 | 90.6 | 21.1 | 21.8 | 21.0 | 18.3 | 19.1 |
| RYE13 | 478927 | 471559 | Roadside | 75.0 | 75.0 | 13.7 | 13.7 | 12.3 | 11.7 | 12.2 |
| RYE14 | 461282 | 483821 | Kerbside | 90.6 | 90.6 | 17.9 | 18.8 | 18.7 | 16.6 | 16.0 |
| RYE15 | 478608 | 471881 | Roadside | 90.6 | 90.6 | 25.2 | 25.4 | 25.1 | 25.0 | 24.6 |
| RYE16 | 478911 | 471767 | Roadside | 90.6 | 90.6 | 13.1 | 12.4 | 12.6 | 11.4 | 10.2 |
| RYE17 | 478440 | 472037 | Kerbside | 81.1 | 81.1 | 17.1 | 19.1 | 17.3 | 16.2 | 16.3 |
| RYE18 | 479120 | 471398 | Kerbside | 90.6 | 90.6 | 24.8 | 25.6 | 25.0 | 24.3 | 23.1 |
| RYE19 | 479363 | 472468 | Roadside | 75.0 | 75.0 | 12.2 | 13.8 | 12.4 | 11.4 | 11.7 |
| RYE20 | 478792 | 472377 | Roadside | 90.6 | 90.6 | 16.0 | 20.0 | 16.8 | 14.9 | 15.2 |
| RYE22 | 479288 | 471386 | Kerbside | 83.0 | 83.0 | 13.2 | 13.6 | 13.1 | 12.3 | 12.4 |
| RYE21 | 479173 | 471281 | Roadside | 90.6 | 90.6 | 13.3 | 13.3 | 13.6 | 13.7 | 11.9 |
| RYE23 | 479288 | 471386 | Kerbside | 83.0 | 83.0 | 17.3 | 20.0 | 18.9 | 16.0 | 16.7 |
| RYE24 | 479173 | 471281 | Roadside | 75.0 | 75.0 | 10.4 | 10.5 | 10.7 | 11.0 | 10.6 |
| H1 | 428594 | 458666 | Roadside | 100.0 | 100.0 | 15.6 | 17.7 | 19.9 | 16.7 | 15.2 |
| H2 | 431044 | 471039 | Roadside | 75.0 | 75.0 | 17.6 | 19.9 | 18.7 | 17.2 | 17.1 |
| H6 | 431189 | 471146 | Roadside | 100.0 | 100.0 | 16.9 | 17.5 | 16.9 | 15.7 | 14.8 |
| H7 | 431110 | 471124 | Roadside | 100.0 | 100.0 | 19.2 | 22.5 | 19.5 | 18.3 | 16.8 |
| H8 | 431155 | 471216 | Roadside | 90.6 | 90.6 | 23.1 | 30.1 | 26.3 | 23.4 | 23.9 |
| H9 | 431135 | 471186 | Roadside | 100.0 | 100.0 | 22.1 | 27.1 | 25.6 | 23.2 | 22.2 |
| H10 | 431146 | 471258 | Roadside | 90.6 | 90.6 | 22.4 | 25.3 | 23.1 | 21.4 | 20.1 |
| H12 | 434715 | 457387 | Roadside | 100.0 | 100.0 | 19.8 | 23.3 | 21.5 | 19.6 | 19.0 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| H13 | 434707 | 457368 | Roadside | 100.0 | 100.0 | 30.7 | 38.3 | 38.4 | 31.2 | 30.3 |
| H14 | 434759 | 457375 | Roadside | 90.6 | 90.6 | 33.8 | 36.8 | 38.3 | 33.9 | 27.9 |
| H16 | 434763 | 457388 | Roadside | 75.0 | 75.0 | 25.6 | 29.5 | 27.3 | 23.0 | 22.5 |
| H17 | 434725 | 457405 | Roadside | 92.5 | 92.5 | 18.7 | 21.3 | 19.9 | 18.3 | 16.5 |
| H18 | 435210 | 456918 | Roadside | 92.5 | 92.5 | 21.4 | 24.7 | 23.6 | 21.7 | 22.5 |
| H19 | 435012 | 457084 | Roadside | 100.0 | 100.0 | 22.2 | 27.1 | 25.6 | 21.9 | 21.2 |
| H20 | 435133 | 457009 | Roadside | 100.0 | 100.0 | 24.9 | 31.1 | 27.3 | 26.7 | 23.1 |
| H21 | 435158 | 456992 | Roadside | 100.0 | 100.0 | 20.4 | 23.8 | 22.7 | 18.0 | 17.3 |
| H22 | 435224 | 456913 | Roadside | 100.0 | 100.0 | 27.3 | 28.9 | 29.7 | 25.9 | 24.5 |
| H23 | 432918 | 455959 | Roadside | 84.9 | 84.9 | 17.0 | 18.7 | 18.2 | 17.0 | 16.3 |
| H24 | 432477 | 454805 | Roadside | 100.0 | 100.0 | 20.8 | 22.7 | 23.1 | 19.3 | 18.8 |
| H4, H5, H25 | 431087 | 471100 | Roadside | 75.0 | 75.0 | 28.9 | 33.3 | 32.4 |  | 26.7 |
| H26 | 432494 | 454808 | Roadside | 67.9 | 67.9 | 31.3 | 31.7 | 31.8 | 27.9 | 27.3 |
| H28 | 429313 | 453820 | Urban Background | 100.0 | 100.0 | 8.8 | 9.3 | 8.3 | 7.7 | 6.6 |
| H29 | 429534 | 456882 | Kerbside | 100.0 | 100.0 | 21.4 | 23.5 | 25.3 | 21.8 | 18.7 |
| H30 | 435137 | 456968 | Roadside | 90.6 | 90.6 | 34.1 | 37.7 | 31.5 | 29.1 | 27.7 |
| H33 | 430224 | 456727 | Roadside | 100.0 | 100.0 | 20.1 | 20.6 | 23.4 | 19.8 | 17.6 |
| H34 | 432508 | 454804 | Roadside | 90.6 | 90.6 | 22.1 | 24.0 | 23.5 | 19.0 | 21.0 |
| H35 | 430513 | 456467 | Roadside | 100.0 | 100.0 | 16.0 | 19.6 | 18.0 | 15.4 | 15.1 |
| H36 | 430925 | 455804 | Roadside | 100.0 | 100.0 | 17.3 | 20.3 | 19.1 | 17.1 | 14.3 |
| H37 | 430573 | 456436 | Roadside | 100.0 | 100.0 | 17.4 | 20.9 | 20.5 | 19.3 | 18.3 |
| H38 | 430647 | 456324 | Roadside | 100.0 | 100.0 | 22.5 | 21.7 | 22.4 | 20.8 | 18.2 |
| H39 | 430995 | 455831 | Kerbside | 100.0 | 100.0 | 30.7 | 31.9 | 33.4 | 31.1 | 28.9 |
| H40 | 430935 | 455826 | Roadside | 100.0 | 100.0 | 18.9 | 22.2 | 20.8 | 19.2 | 17.2 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| H41 | 435235 | 456907 | Roadside | 100.0 | 100.0 | 23.9 | 27.7 | 26.3 | 23.1 | 21.7 |
| H42 | 430367 | 455339 | Urban Centre | 100.0 | 100.0 | 30.6 | 34.1 | 33.9 | 30.9 | 30.8 |
| H43 | 430397 | 455194 | Urban Centre | 83.0 | 83.0 | 16.6 | 19.4 | 19.0 | 16.6 | 13.6 |
| H27, H44 | 441851 | 453686 | Roadside | 100.0 | 100.0 | 18.9 | 21.2 | 19.2 | 16.8 | 16.3 |
| H46 | 430535 | 456495 | Roadside | 100.0 | 100.0 | 17.7 | 17.6 | 18.2 | 16.0 | 15.5 |
| H47 | 430800 | 456572 | Urban Background | 92.5 | 92.5 | 10.6 | 11.3 | 9.4 | 7.9 | 8.1 |
| H49 | 434623 | 457314 | Roadside | 90.6 | 90.6 | 24.7 | 29.8 | 29.1 | 25.1 | 20.4 |
| H50 | 434578 | 457260 | Roadside | 81.1 | 81.1 | 25.6 | 30.5 | 28.7 | 25.9 | 23.5 |
| H51 | 434796 | 457393 | Roadside | 83.0 | 83.0 | 32.8 | 34.7 | 32.7 | 28.8 | 28.1 |
| H52 | 434835 | 457329 | Roadside | 90.6 | 90.6 | 30.9 | 33.7 | 33.1 | 30.5 | 29.2 |
| H53 | 435253 | 456893 | Roadside | 75.0 | 75.0 | 23.3 | 26.1 | 24.9 | 21.5 | 20.9 |
| H54 | 431075 | 471077 | Roadside | 100.0 | 100.0 | 22.3 | 27.6 | 24.9 | 22.1 | 20.3 |
| H55 | 431102 | 471101 | Roadside | 100.0 | 100.0 | 24.0 | 25.3 | 26.3 | 22.8 | 22.5 |
| H56 | 431151 | 471119 | Roadside | 100.0 | 100.0 | 19.7 | 20.9 | 20.2 | 18.3 | 17.9 |
| H57 | 431193 | 471132 | Roadside | 100.0 | 100.0 | 21.2 | 24.1 | 23.5 | 20.5 | 20.7 |
| H58 | 431242 | 471135 | Roadside | 100.0 | 100.0 | 18.3 | 19.5 | 19.1 | 18.0 | 15.9 |
| H15, H59, H60 | 434804 | 457358 | Roadside | 100.0 | 100.0 | 29.8 | 31.6 | 32.2 | 27.0 | 24.8 |
| H61 | 430478 | 455297 | Roadside | 100.0 | 100.0 | 21.5 | 22.3 | 21.3 | 21.9 | 20.2 |
| H62 | 430420 | 456798 | Roadside | 81.1 | 81.1 | 16.9 | 15.6 | 17.0 | 14.1 | 14.4 |
| H63 | 430548 | 454832 | Roadside | 64.2 | 64.2 |  | 21.0 | 21.7 | 20.0 | 17.8 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| H64 | 432806 | 455899 | Roadside | 100.0 | 100.0 | | 19.5 | 19.8 | 17.8 | 16.6 |
| H67 | 429503 | 454275 | Roadside | 84.9 | 84.9 | | | 16.1 | 14.3 | 13.0 |
| H70 | 431592 | 455297 | Roadside | 100.0 | 58.5 | | | | | 17.2 |
| H71 | 431175 | 454782 | Roadside | 85.7 | 49.1 | | | | | 7.2 |
| 9N | 460899 | 430935 | Urban Background | 81.1 | 81.1 | 10.8 | 11.1 | 10.9 | 9.7 | 9.2 |
| 4N | 461096 | 432191 | Roadside | 75.0 | 75.0 | 17.1 | 21.7 | 18.7 | 17.7 | 16.6 |
| 3N | 460855 | 432820 | Urban Background | 90.6 | 90.6 | 12.5 | 12.3 | 11.8 | 11.0 | 10.2 |
| S6 | 461635 | 432372 | Roadside | 83.0 | 83.0 | 20.6 | 24.6 | 22.7 | 22.5 | 20.3 |
| S5a, S5b, S5c | 461659 | 432405 | Roadside | 90.6 | 90.6 | 29.6 | 33.3 | 30.1 | 32.8 | 29.7 |
| S7a, S7b, S7c | 461688 | 432434 | Roadside | 75.0 | 75.0 | 35.2 | **41.9** | 39.1 | 39.8 | 37.7 |
| S2 | 461689 | 432422 | Roadside | 92.5 | 92.5 | 23.2 | 24.2 | 24.9 | 24.0 | 22.4 |
| S8 | 461697 | 432424 | Roadside | 100.0 | 100.0 | 21.1 | 24.7 | 23.5 | 22.3 | 21.4 |
| S4 | 461681 | 432407 | Roadside | 100.0 | 100.0 | 32.2 | 39.2 | 37.1 | 36.8 | 32.6 |
| S3a, S3b, S3c | 461670 | 432408 | Roadside | 100.0 | 100.0 | 25.8 | 33.0 | 30.6 | 30.8 | 27.7 |
| S1 | 461638 | 432345 | Roadside | 92.5 | 92.5 | 24.2 | 28.3 | 26.8 | 26.4 | 24.2 |
| S11 | 461507 | 432319 | Roadside | 92.5 | 92.5 | 24.3 | 27.8 | 27.1 | 24.3 | 23.5 |
| S10 | 461317 | 432356 | Roadside | 69.8 | 69.8 | 22.6 | 26.6 | 23.7 | 23.4 | 21.5 |
| S27 | 461120 | 432303 | Roadside | 84.9 | 84.9 | | 32.7 | 28.1 | 26.1 | 25.1 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| S28 | 461062 | 432475 | Roadside | 100.0 | 100.0 | | 19.1 | 16.6 | 15.3 | 15.0 |
| S29 | 461041 | 432539 | Roadside | 92.5 | 92.5 | | 21.8 | 20.1 | 18.4 | 17.6 |
| S32 | 461871 | 432643 | Roadside | 90.6 | 90.6 | | 15.1 | 13.8 | 13.7 | 13.0 |
| S34 | 461938 | 432710 | Roadside | 90.6 | 90.6 | | 23.3 | 20.8 | 20.0 | 18.8 |
| S33 | 461935 | 432672 | Roadside | 66.0 | 66.0 | | 15.5 | 14.3 | 13.6 | 12.9 |
| S31 | 461852 | 432594 | Roadside | 90.6 | 90.6 | | 20.1 | 17.6 | 17.9 | 16.3 |
| S30 | 461806 | 432546 | Roadside | 90.6 | 90.6 | | 21.3 | 18.4 | 18.7 | 17.4 |
| S18 | 461517 | 432582 | Roadside | 100.0 | 100.0 | 21.0 | 24.7 | 23.5 | 21.4 | 20.6 |
| S19 | 461526 | 432584 | Roadside | 100.0 | 100.0 | 22.7 | 29.2 | 26.5 | 25.4 | 24.6 |
| S23 | 461821 | 432376 | Roadside | 83.0 | 83.0 | 15.9 | 17.1 | 15.9 | 16.7 | 16.2 |
| S24 | 461788 | 432379 | Roadside | 90.6 | 90.6 | 19.6 | 20.9 | 20.2 | 19.5 | 18.9 |
| S25 | 461762 | 432408 | Roadside | 100.0 | 100.0 | 18.8 | 21.3 | 20.6 | 20.2 | 19.0 |
| S35 | 461617 | 432148 | Roadside | 83.0 | 83.0 | | | | 19.6 | 19.6 |
| C1 | 366749 | 469197 | Roadside | 100.0 | 100.0 | 13.0 | 14.2 | 14.5 | 13.0 | 12.6 |
| C2 | 381959 | 463625 | Roadside | 100.0 | 100.0 | 15.8 | 17.5 | 16.7 | 14.8 | 14.5 |
| C3 | 399103 | 451611 | Roadside | 100.0 | 100.0 | 19.2 | 21.7 | 22.3 | 19.7 | 18.4 |
| C4 | 398820 | 451196 | Roadside | 90.6 | 90.6 | 14.4 | 17.6 | 16.5 | 15.2 | 14.6 |
| C5 | 400629 | 444999 | Roadside | 100.0 | 100.0 | 21.7 | 24.7 | 24.4 | 21.5 | 21.4 |
| C6 | 400811 | 445217 | Roadside | 100.0 | 100.0 | 17.1 | 20.0 | 18.8 | 17.2 | 15.3 |
| C7 | 397795 | 451308 | Roadside | 100.0 | 100.0 | 19.3 | 15.3 | 15.8 | 13.4 | 11.9 |
| C8 | 398898 | 451835 | Roadside | 100.0 | 100.0 | 15.2 | 17.5 | 17.8 | 15.0 | 13.7 |
| C9 | 400006 | 444760 | Roadside | 100.0 | 100.0 | 16.4 | 19.1 | 18.1 | 18.6 | 16.5 |
| C10 | 393272 | 454225 | Roadside | 100.0 | 100.0 | 22.6 | 22.4 | 22.1 | 20.5 | 18.1 |
| C11 | 385397 | 456675 | Roadside | 100.0 | 100.0 | 21.0 | 16.7 | 16.4 | 14.4 | 13.9 |
| C12 | 401212 | 445224 | Roadside | 90.6 | 90.6 | | 14.6 | 15.4 | 13.8 | 12.2 |
| SC1 | 503929 | 488389 | Roadside | 92.5 | 92.5 | 20.1 | 23.3 | 23.9 | 21.8 | 22.3 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| SC2 | 504094 | 487815 | Roadside | 100.0 | 100.0 | 18.3 | 21.4 | 23.3 | 20.5 | 20.5 |
| SC3 | 504109 | 487497 | Roadside | 90.6 | 90.6 | 17.8 | 22.1 | 23.2 | 22.3 | 21.4 |
| SC4 | 505466 | 483378 | Roadside | 90.6 | 90.6 | 10.6 | 13.4 | 12.7 | 11.2 | 11.0 |
| SC5 | 498998 | 484889 | Roadside | 92.5 | 92.5 | 16.8 | 22.7 | 20.7 | 19.6 | 20.3 |
| SC6 | 499023 | 484885 | Roadside | 90.6 | 90.6 | 15.8 | 17.8 | 16.1 | 15.8 | 16.0 |
| SC7 | 492186 | 482266 | Roadside | 100.0 | 100.0 | 19.9 | 23.5 | 23.3 | 21.4 | 21.4 |
| SC8 | 492161 | 482291 | Roadside | 75.0 | 75.0 | 13.3 | 17.1 | 17.7 | 16.6 | 14.3 |
| SC9 | 503288 | 487538 | Roadside | 100.0 | 100.0 | 19.1 | 26.5 | 27.8 | 25.2 | 25.3 |
| SC10 | 503273 | 487523 | Roadside | 83.0 | 83.0 | 17.7 | 19.5 | 22.1 | 19.8 | 19.6 |
| SC12 | 503218 | 487940 | Roadside | 90.6 | 90.6 | 17.1 | 20.8 | 20.3 | 19.7 | 19.2 |
| SC13 | 503088 | 487922 | Roadside | 100.0 | 100.0 | 17.4 | 22.8 | 21.6 | 20.8 | 20.1 |
| SC14 | 503045 | 488003 | Roadside | 100.0 | 100.0 | 24.2 | 25.4 | 27.3 | 27.7 | 26.3 |
| SC15 | 502929 | 488227 | Roadside | 100.0 | 100.0 | 13.6 | 20.8 | 16.6 | 15.3 | 14.0 |
| SC16 | 488913 | 509314 | Roadside | 100.0 | 100.0 | 10.2 | 13.2 | 12.0 | 10.1 | 9.9 |
| SC17 | 488912 | 509271 | Roadside | 100.0 | 100.0 | 15.4 | 18.9 | 17.8 | 15.9 | 15.0 |
| SC18 | 489863 | 510887 | Kerbside | 100.0 | 100.0 | 12.2 | 15.9 | 14.8 | 13.7 | 13.0 |
| SC19 | 489388 | 510619 | Roadside | 66.0 | 66.0 | 18.7 | 25.0 | 22.5 | 25.2 | 24.3 |
| SC20 | 489277 | 510331 | Roadside | 100.0 | 100.0 | 12.0 | 15.1 | 13.2 | 12.6 | 12.4 |
| SC21 | 490370 | 509314 | Roadside | 83.0 | 83.0 | 18.1 | 21.1 | 21.0 | 19.3 | 18.9 |
| SC22 | 503741 | 488079 | Kerbside | 83.0 | 83.0 | | | | 11.0 | 10.5 |
| SC24 | 503615 | 489367 | Urban Background | 100.0 | 100.0 | 9.3 | 10.8 | 10.2 | 8.3 | 8.0 |
| SC25 | 509679 | 477308 | Roadside | 90.6 | 90.6 | 10.8 | 13.1 | 12.1 | 10.9 | 10.5 |
| SC26 | 511698 | 480664 | Roadside | 100.0 | 100.0 | 10.1 | 11.8 | 10.7 | 9.1 | 8.9 |
| SC27 | 504703 | 488799 | Kerbside | 90.6 | 90.6 | 14.8 | 17.9 | 17.9 | 16.8 | 16.2 |
| SC28 | 504357 | 488553 | Kerbside | 100.0 | 100.0 | 17.7 | 16.8 | 18.9 | 18.7 | 17.4 |

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

☒ **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 µg/$m^3$.

Exceedances of the $NO_2$ annual mean objective of 40µg/$m^3$ are shown in **bold**.

$NO_2$ annual means exceeding 60µg/$m^3$, 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 $NO_2$ Concentrations

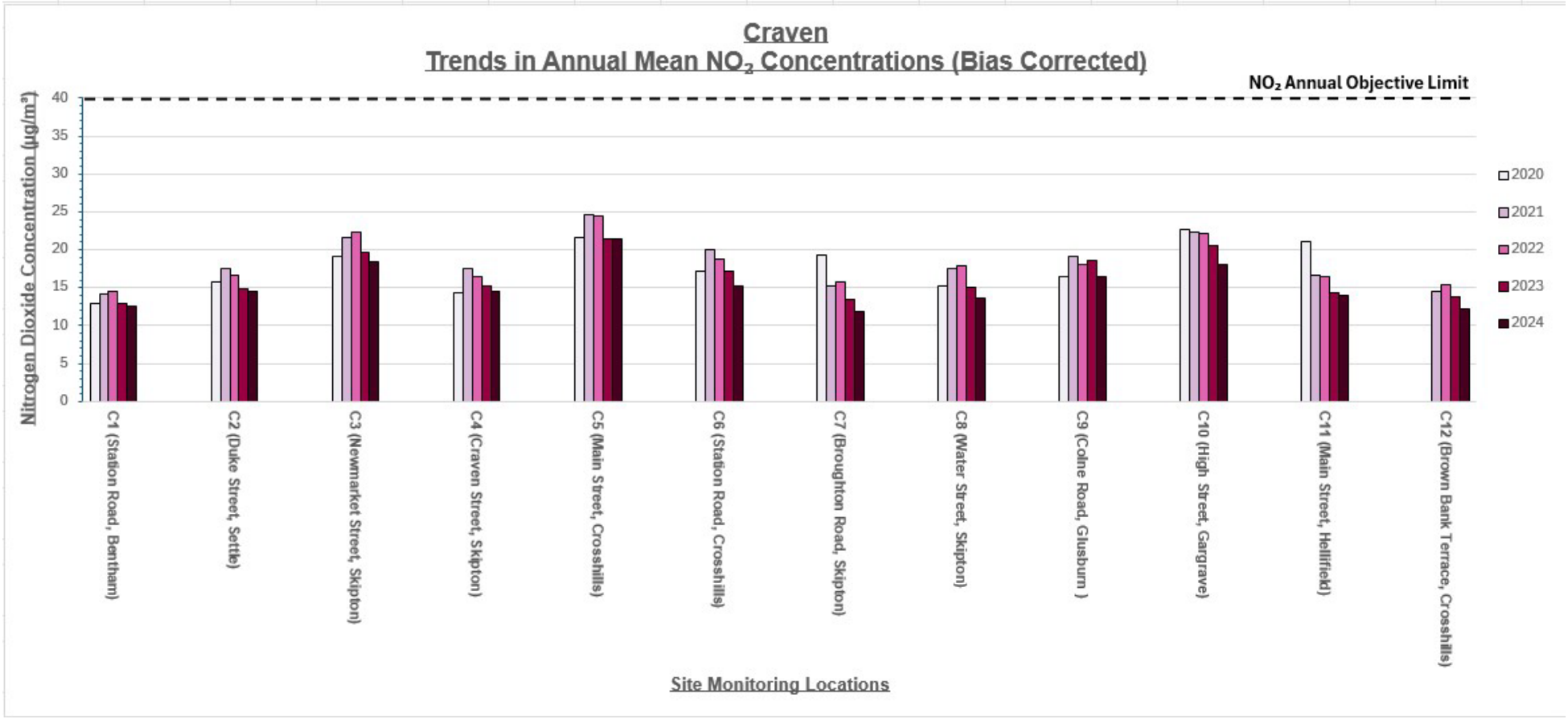


**Figure A.2**

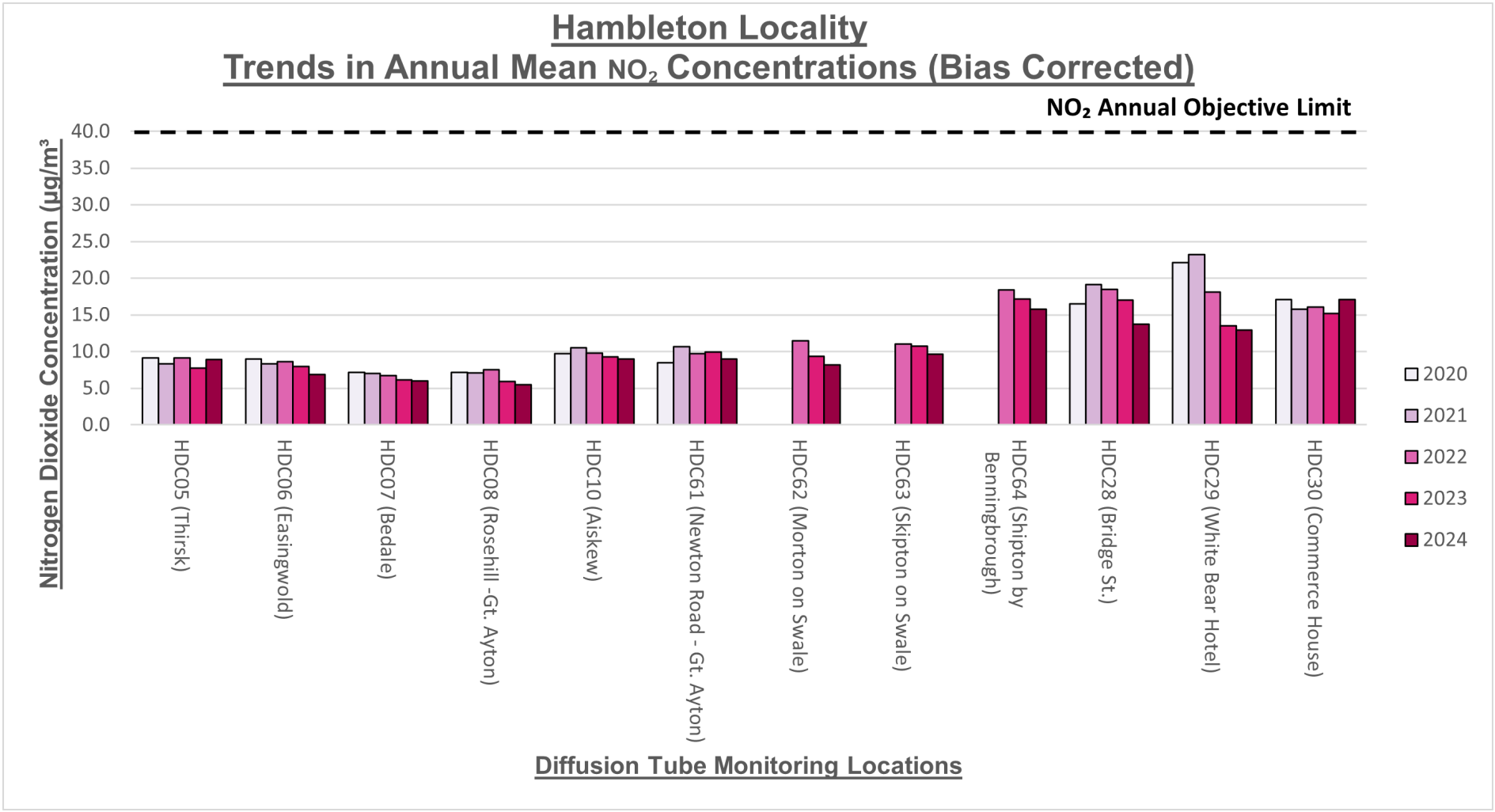

Hambleton Locality
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
NO2 Annual Objective Limit
Nitrogen Dioxide Concentration (µg/m³)
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
HDC05 (Thirsk)
HDC06 (Easingwold)
HDC07 (Bedale)
HDC08 (Rosehill -Gt. Ayton)
HDC10 (Aiskew)
HDC61 (Newton Road - Gt. Ayton)
HDC62 (Morton on Swale)
HDC63 (Skipton on Swale)
HDC64 (Shipton by Benningbrough)
HDC28 (Bridge St.)
HDC29 (White Bear Hotel)
HDC30 (Commerce House)
2020
2021
2022
2023
2024
Diffusion Tube Monitoring Locations

**Figure A.3**

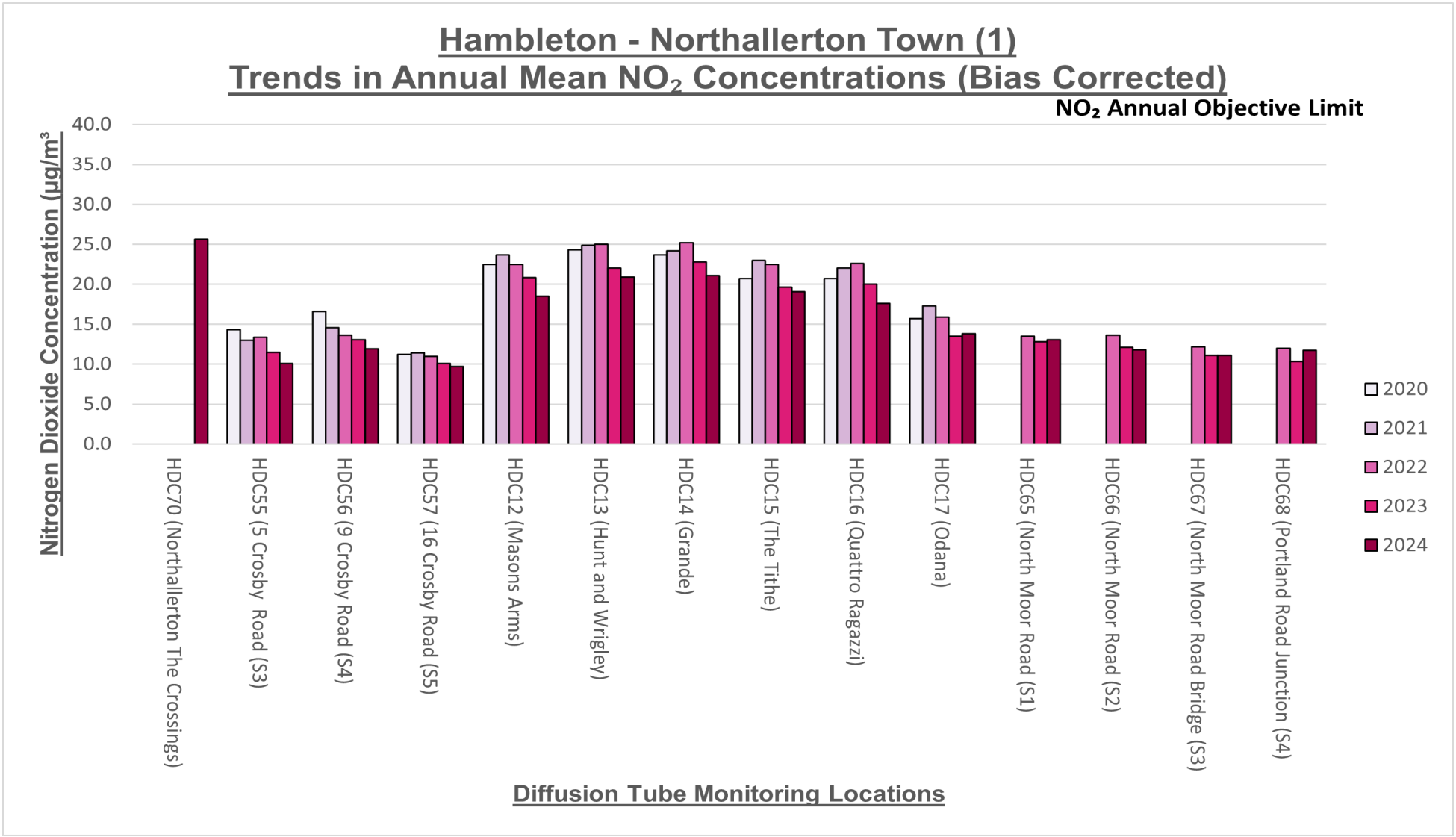

Hambleton - Northallerton Town (1)
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
NO2 Annual Objective Limit
Nitrogen Dioxide Concentration (µg/m³)
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
HDC70 (Northallerton The Crossings)
HDC55 (5 Crosby Road (S3)
HDC56 (9 Crosby Road (S4)
HDC57 (16 Crosby Road (S5)
HDC12 (Masons Arms)
HDC13 (Hunt and Wrigley)
HDC14 (Grande)
HDC15 (The Tithe)
HDC16 (Quattro Ragazzi)
HDC17 (Odana)
HDC65 (North Moor Road (S1)
HDC66 (North Moor Road (S2)
HDC67 (North Moor Road Bridge (S3)
HDC68 (Portland Road Junction (S4)
2020
2021
2022
2023
2024
Diffusion Tube Monitoring Locations

**Figure A.4**

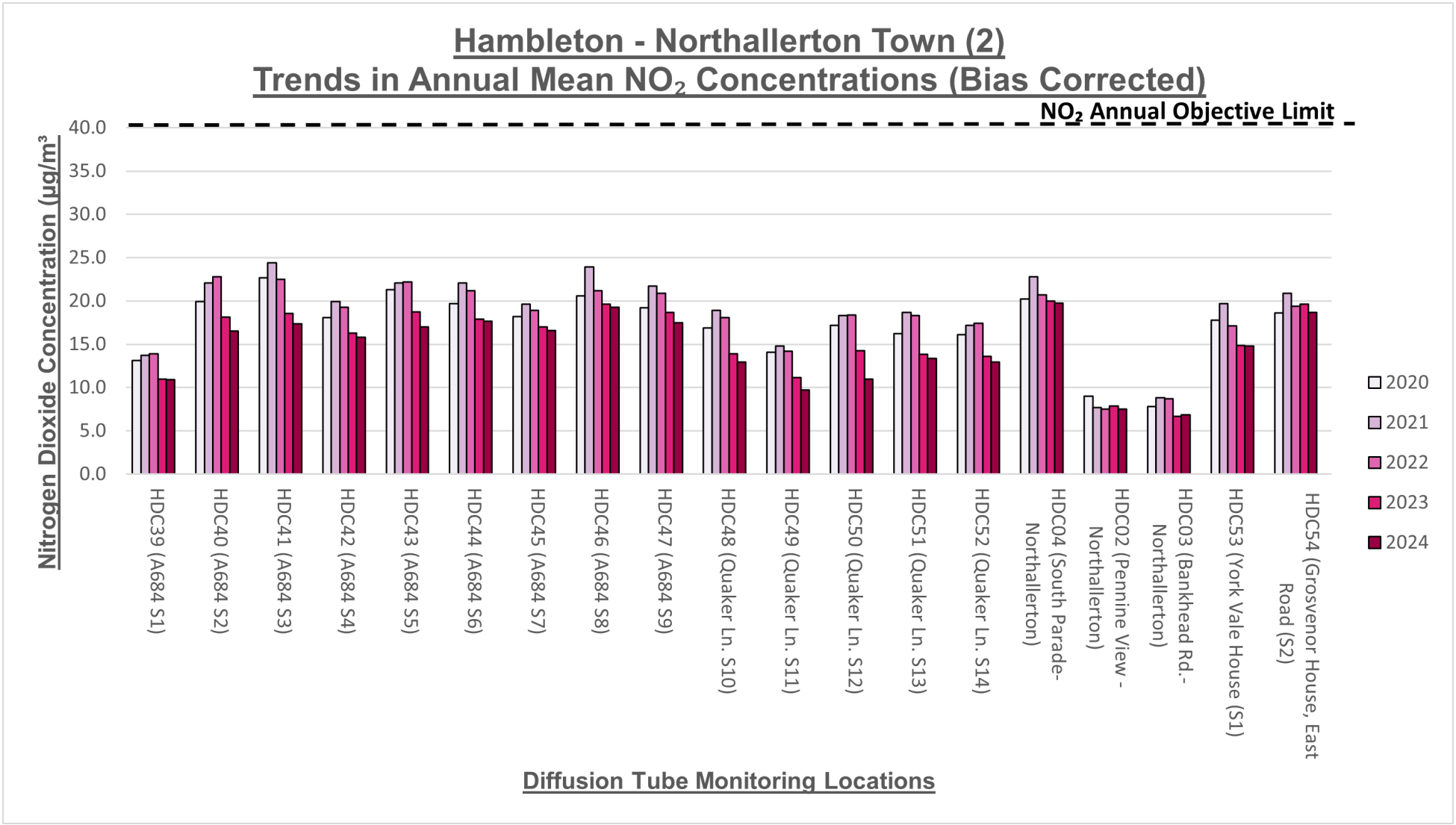

Hambleton - Northallerton Town (2)
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
NO2 Annual Objective Limit
Nitrogen Dioxide Concentration (µg/m³)
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
HDC39 (A684 S1)
HDC40 (A684 S2)
HDC41 (A684 S3)
HDC42 (A684 S4)
HDC43 (A684 S5)
HDC44 (A684 S6)
HDC45 (A684 S7)
HDC46 (A684 S8)
HDC47 (A684 S9)
HDC48 (Quaker Ln. S10)
HDC49 (Quaker Ln. S11)
HDC50 (Quaker Ln. S12)
HDC51 (Quaker Ln. S13)
HDC52 (Quaker Ln. S14)
HDC04 (South Parade-Northallerton)
HDC02 (Pennine View - Northallerton)
HDC03 (Bankhead Rd.-Northallerton)
HDC53 (York Vale House (S1)
HDC54 (Grosvenor House, East Road (S2)
2020
2021
2022
2023
2024
Diffusion Tube Monitoring Locations

**Figure A.5**

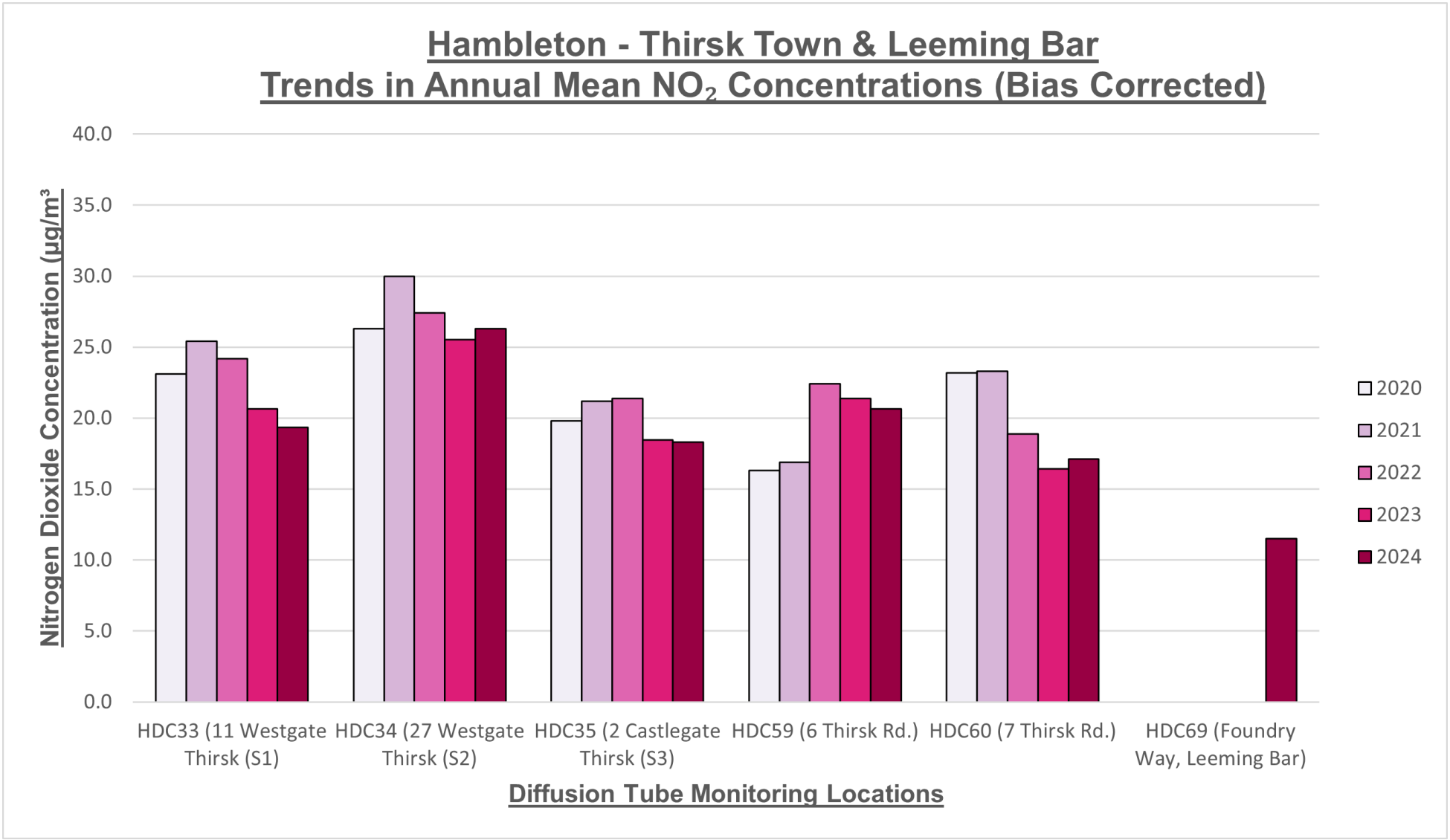

Hambleton - Thirsk Town & Leeming Bar
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
Nitrogen Dioxide Concentration (µg/m³)
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
2020
2021
2022
2023
2024
HDC33 (11 Westgate Thirsk (S1)
HDC34 (27 Westgate Thirsk (S2)
HDC35 (2 Castlegate Thirsk (S3)
HDC59 (6 Thirsk Rd.)
HDC60 (7 Thirsk Rd.)
HDC69 (Foundry Way, Leeming Bar)
Diffusion Tube Monitoring Locations

**Figure A.6**

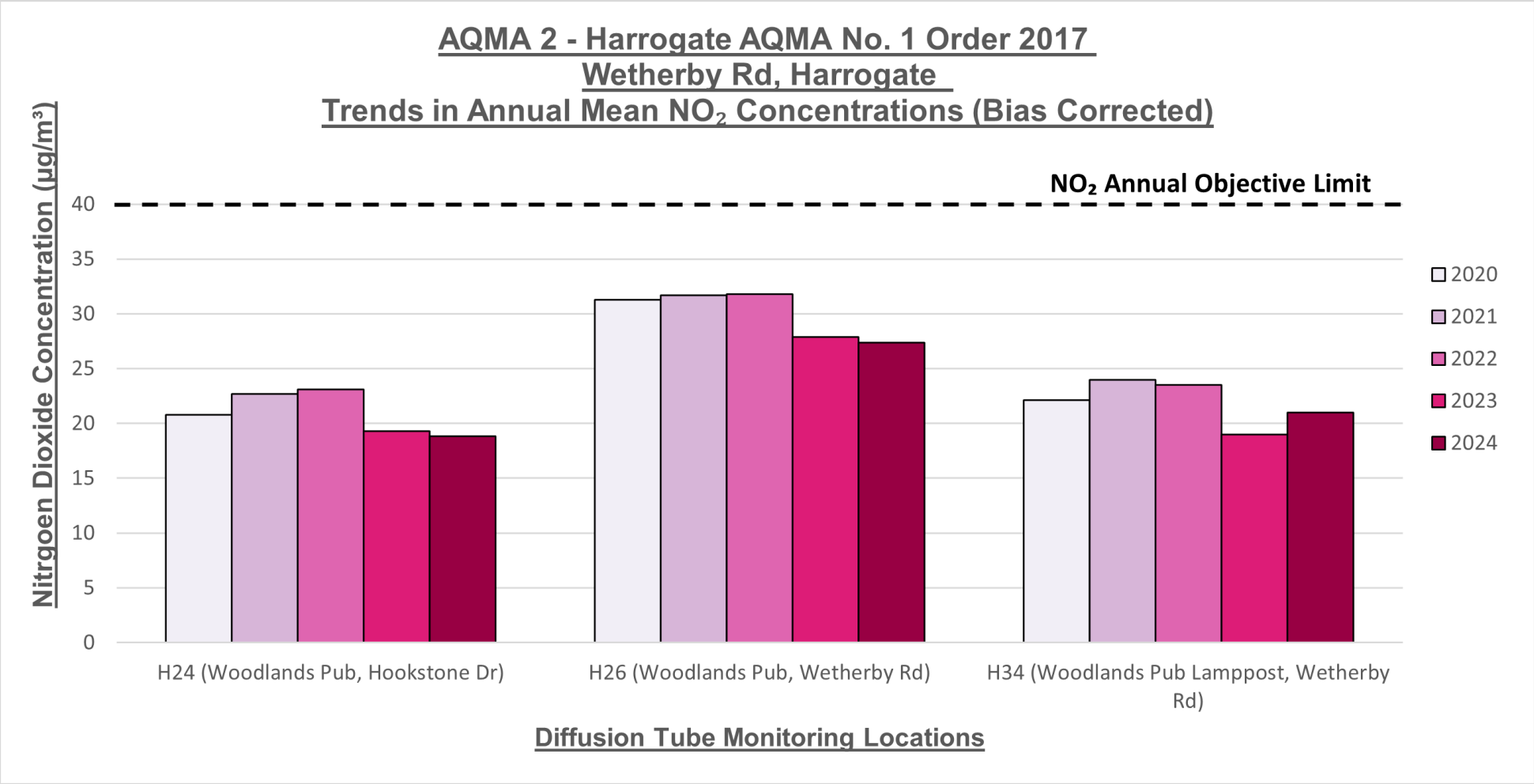

AQMA 2 - Harrogate AQMA No. 1 Order 2017
Wetherby Rd, Harrogate
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
NO2 Annual Objective Limit
Nitrgoen Dioxide Concentration (µg/m³)
40
35
30
25
20
15
10
5
0
2020
2021
2022
2023
2024
H24 (Woodlands Pub, Hookstone Dr)
H26 (Woodlands Pub, Wetherby Rd)
H34 (Woodlands Pub Lamppost, Wetherby Rd)
Diffusion Tube Monitoring Locations

**Figure A.7**

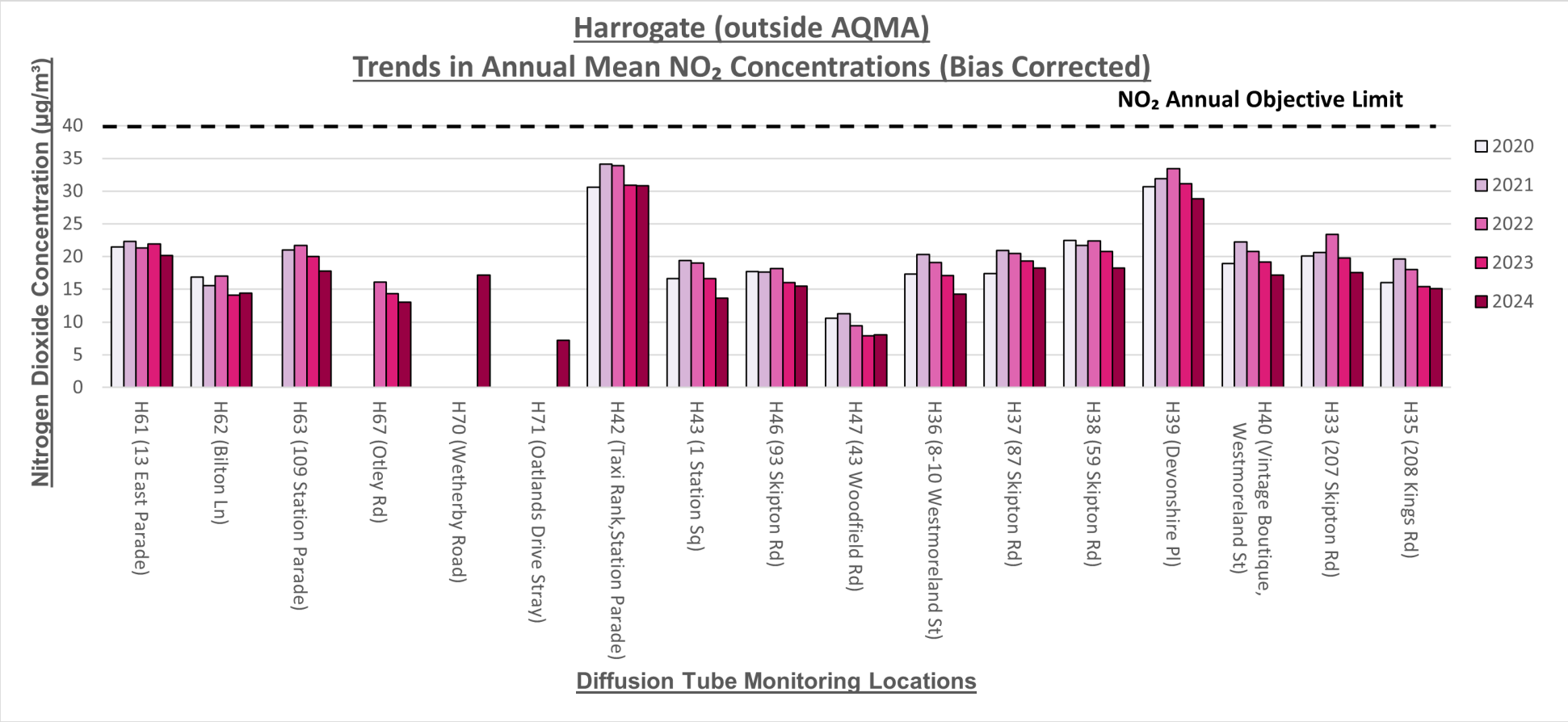

Harrogate (outside AQMA)
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
NO2 Annual Objective Limit
Nitrogen Dioxide Concentration (µg/m3)
40
35
30
25
20
15
10
5
0
2020
2021
2022
2023
2024
H61 (13 East Parade)
H62 (Bilton Ln)
H63 (109 Station Parade)
H67 (Otley Rd)
H70 (Wetherby Road)
H71 (Oatlands Drive Stray)
H42 (Taxi Rank,Station Parade)
H43 (1 Station Sq)
H46 (93 Skipton Rd)
H47 (43 Woodfield Rd)
H36 (8-10 Westmoreland St)
H37 (87 Skipton Rd)
H38 (59 Skipton Rd)
H39 (Devonshire Pl)
H40 (Vintage Boutique, Westmoreland St)
H33 (207 Skipton Rd)
H35 (208 Kings Rd)
Diffusion Tube Monitoring Locations

**Figure A.8**

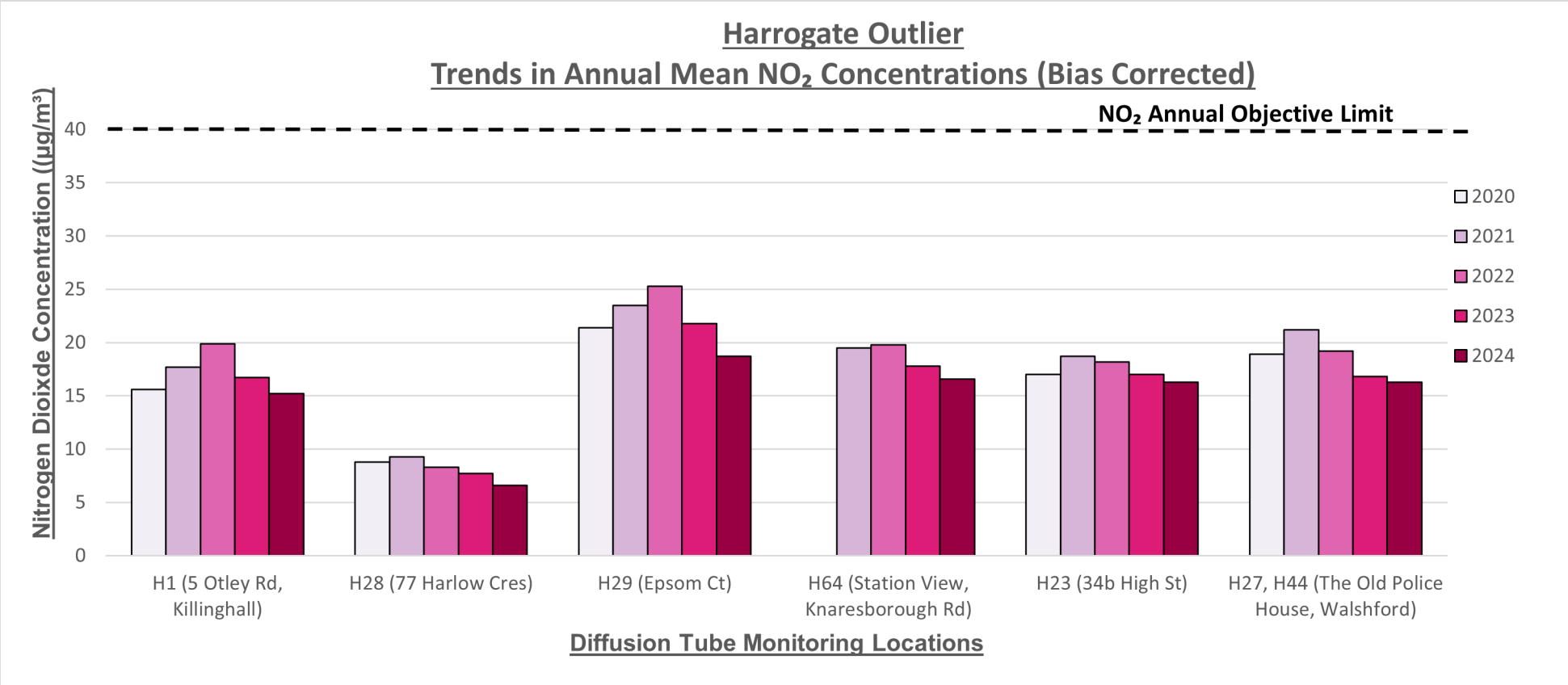

Harrogate Outlier
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
NO2 Annual Objective Limit
Nitrogen Dioixde Concentration ((µg/m³)
40
35
30
25
20
15
10
5
0
2020
2021
2022
2023
2024
H1 (5 Otley Rd, Killinghall)
H28 (77 Harlow Cres)
H29 (Epsom Ct)
H64 (Station View, Knaresborough Rd)
H23 (34b High St)
H27, H44 (The Old Police House, Walshford)
Diffusion Tube Monitoring Locations

**Figure A.9**

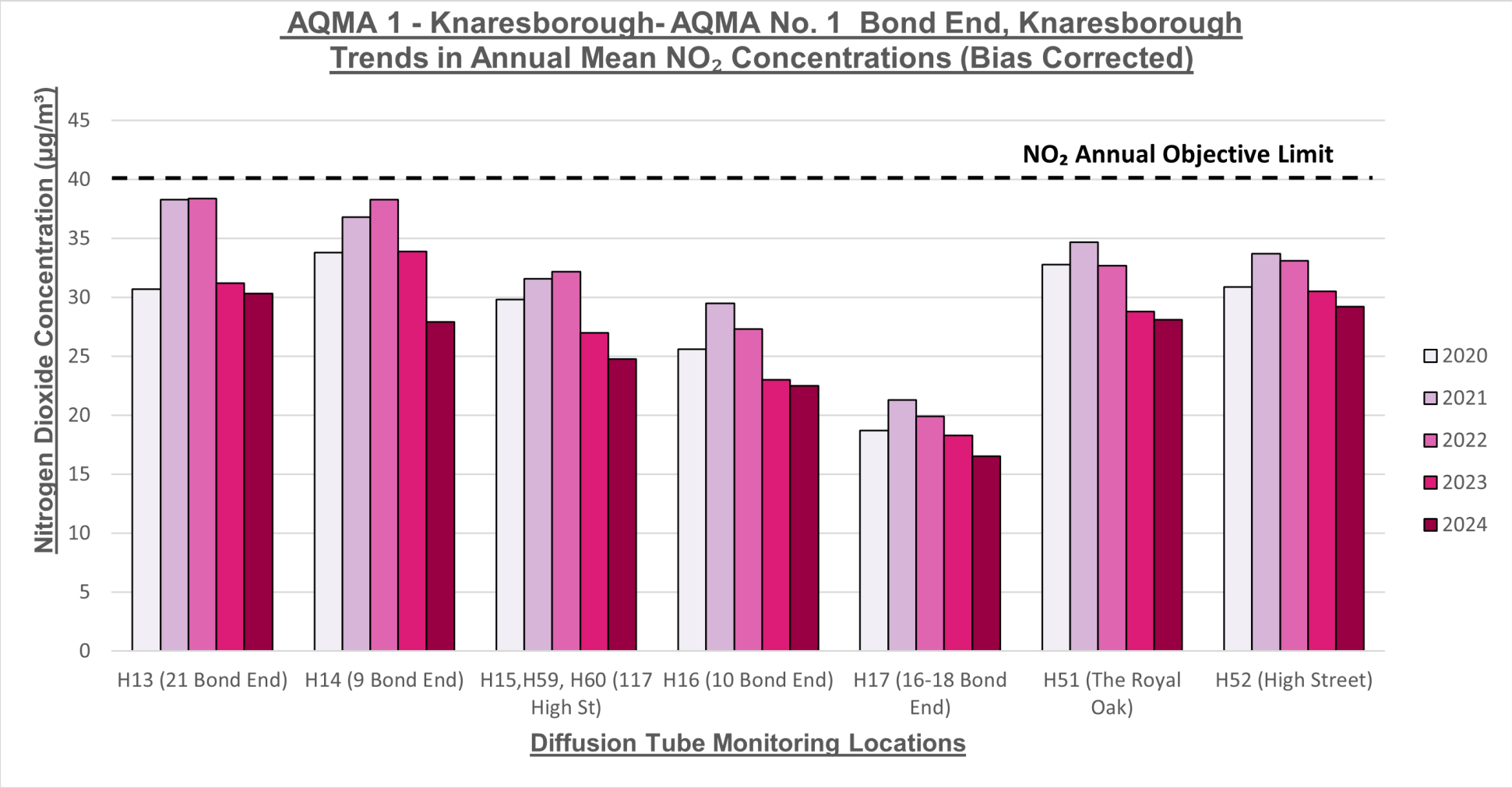

AQMA 1 - Knaresborough- AQMA No. 1 Bond End, Knaresborough
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
Nitrogen Dioxide Concentration (µg/m³)
45
40
35
30
25
20
15
10
5
0
NO2 Annual Objective Limit
2020
2021
2022
2023
2024
H13 (21 Bond End)
H14 (9 Bond End)
H15,H59, H60 (117 High St)
H16 (10 Bond End)
H17 (16-18 Bond End)
H51 (The Royal Oak)
H52 (High Street)
Diffusion Tube Monitoring Locations

**Figure A.10**

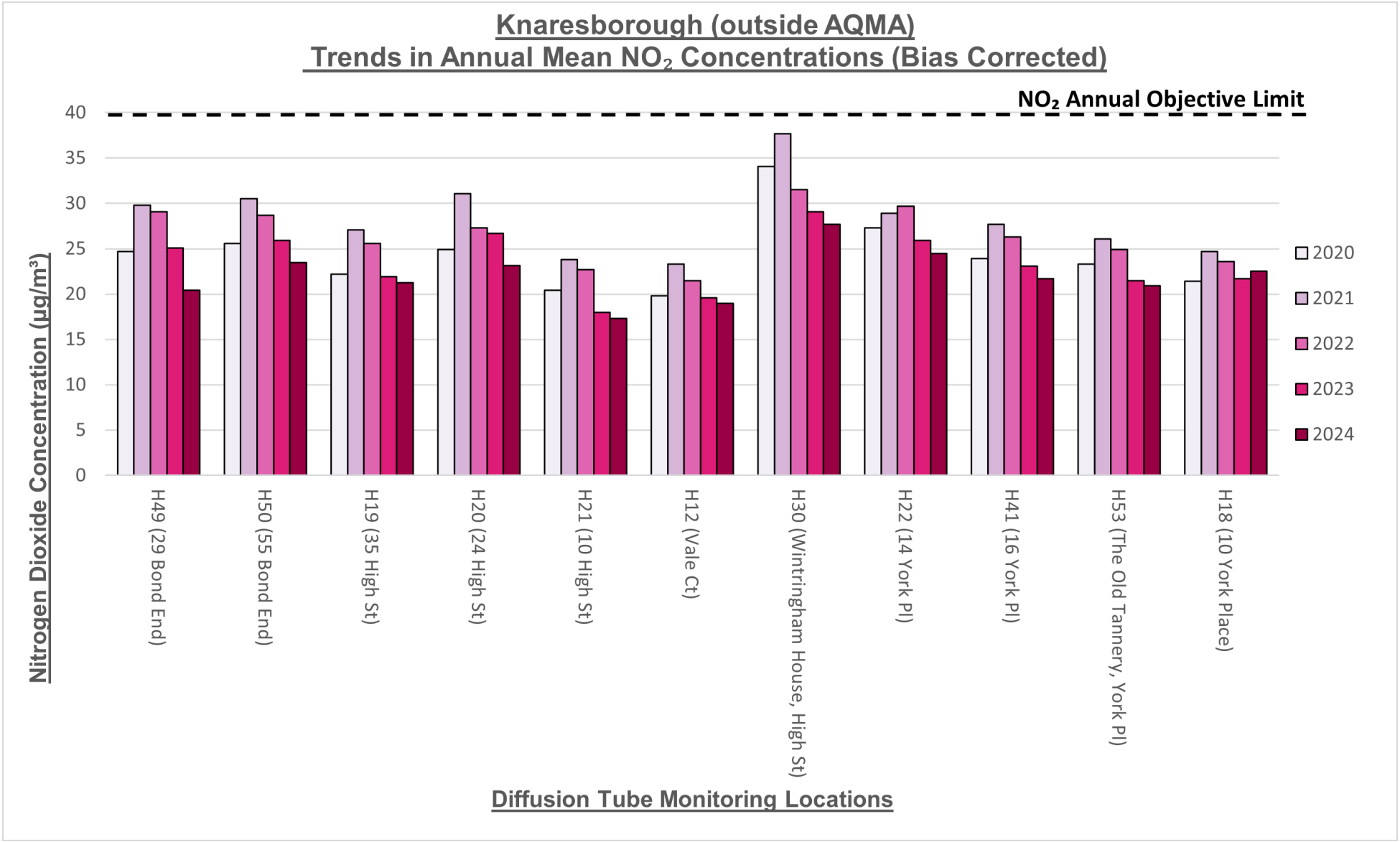

Knaresborough (outside AQMA)
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
NO2 Annual Objective Limit
Nitrogen Dioxide Concentration (µg/m³)
40
35
30
25
20
15
10
5
0
2020
2021
2022
2023
2024
H49 (29 Bond End)
H50 (55 Bond End)
H19 (35 High St)
H20 (24 High St)
H21 (10 High St)
H12 (Vale Ct)
H30 (Wintringham House, High St)
H22 (14 York Pl)
H41 (16 York Pl)
H53 (The Old Tannery, York Pl)
H18 (10 York Place)
Diffusion Tube Monitoring Locations

**Figure A.11**

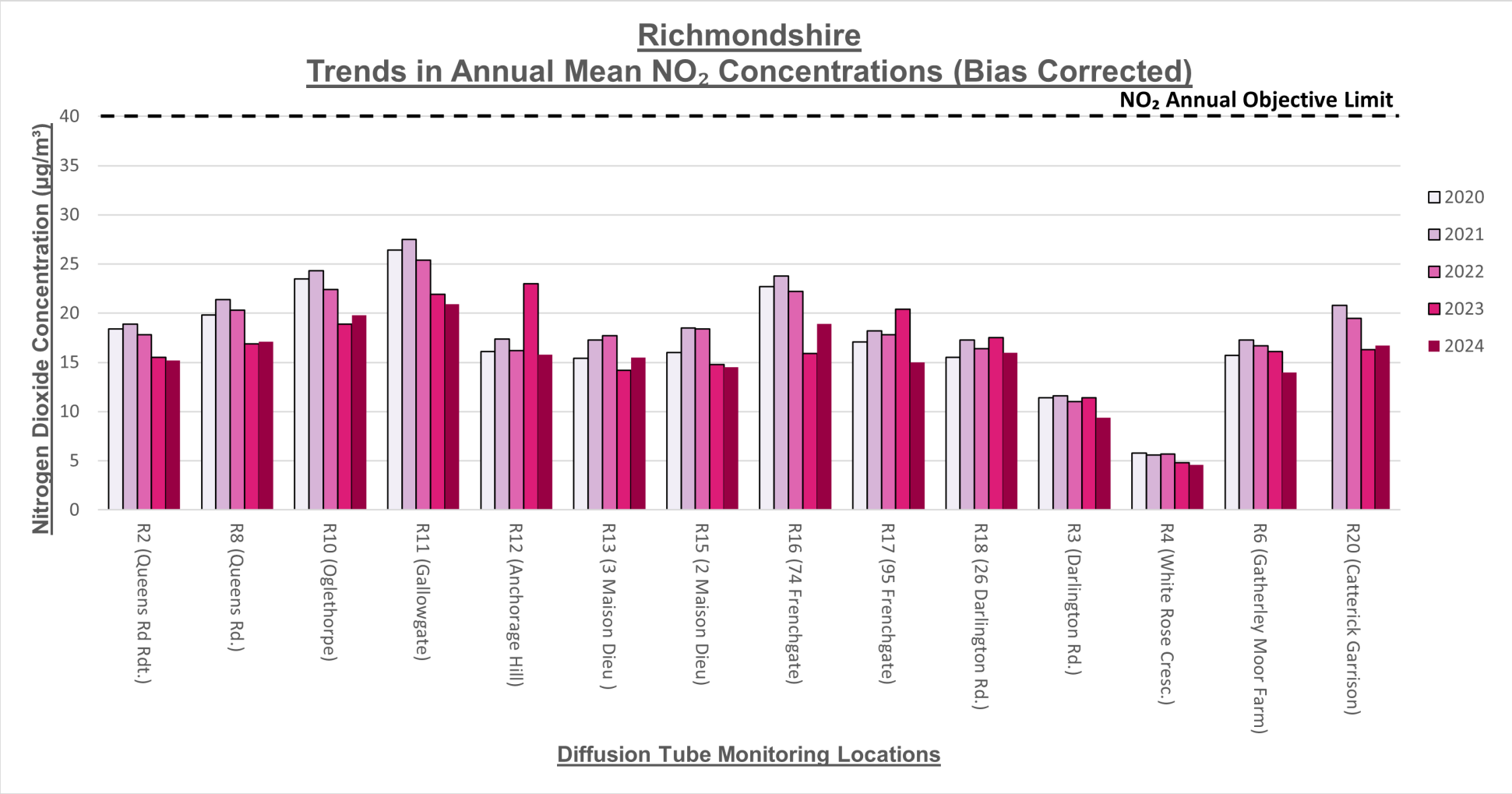

Richmondshire
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
NO2 Annual Objective Limit
Nitrogen Dioxide Concentration (µg/m³)
40
35
30
25
20
15
10
5
0
2020
2021
2022
2023
2024
R2 (Queens Rd Rdt.)
R8 (Queens Rd.)
R10 (Oglethorpe)
R11 (Gallowgate)
R12 (Anchorage Hill)
R13 (3 Maison Dieu )
R15 (2 Maison Dieu)
R16 (74 Frenchgate)
R17 (95 Frenchgate)
R18 (26 Darlington Rd.)
R3 (Darlington Rd.)
R4 (White Rose Cresc.)
R6 (Gatherley Moor Farm)
R20 (Catterick Garrison)
Diffusion Tube Monitoring Locations

**Figure A.12**

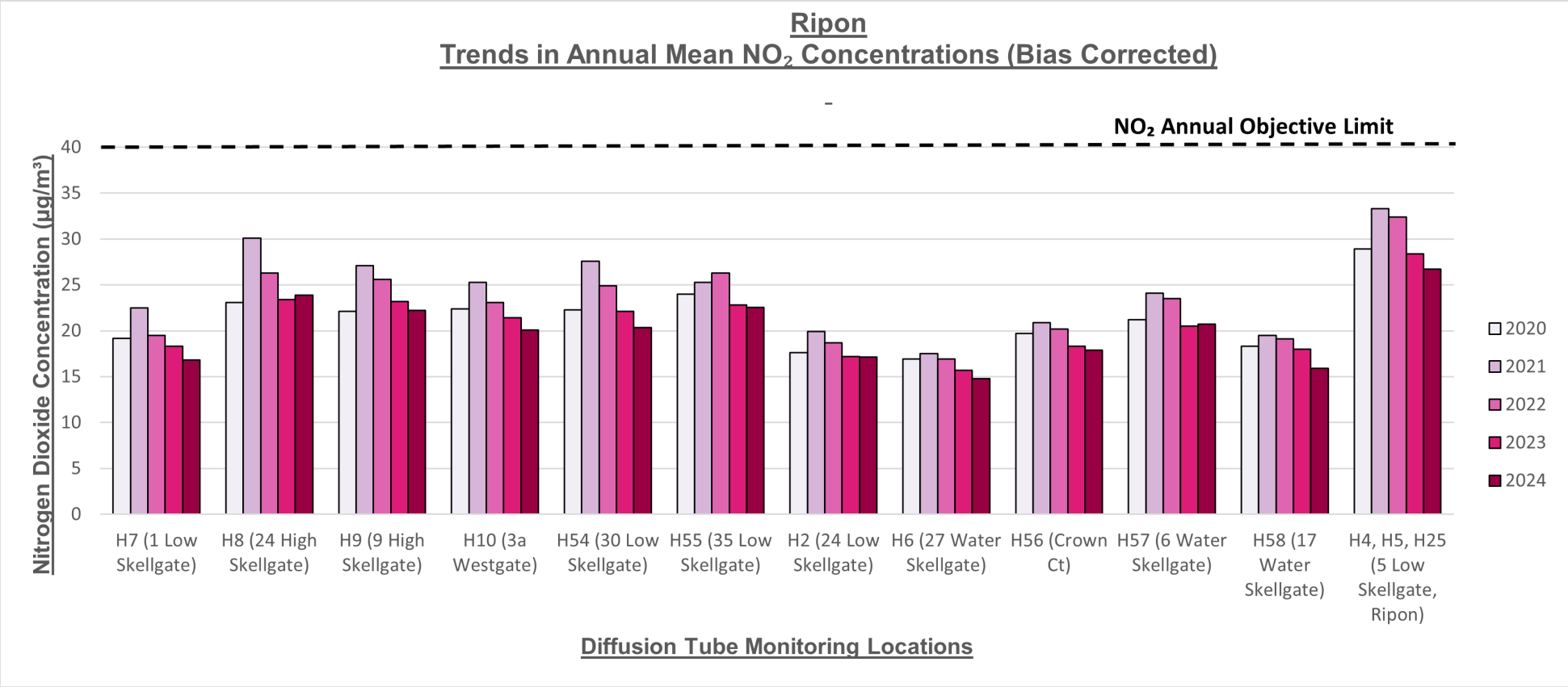

Ripon
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
NO2 Annual Objective Limit
Nitrogen Dioxide Concentration (µg/m³)
40
35
30
25
20
15
10
5
0
2020
2021
2022
2023
2024
H7 (1 Low Skellgate)
H8 (24 High Skellgate)
H9 (9 High Skellgate)
H10 (3a Westgate)
H54 (30 Low Skellgate)
H55 (35 Low Skellgate)
H2 (24 Low Skellgate)
H6 (27 Water Skellgate)
H56 (Crown Ct)
H57 (6 Water Skellgate)
H58 (17 Water Skellgate)
H4, H5, H25 (5 Low Skellgate, Ripon)
Diffusion Tube Monitoring Locations

**Figure A.13**

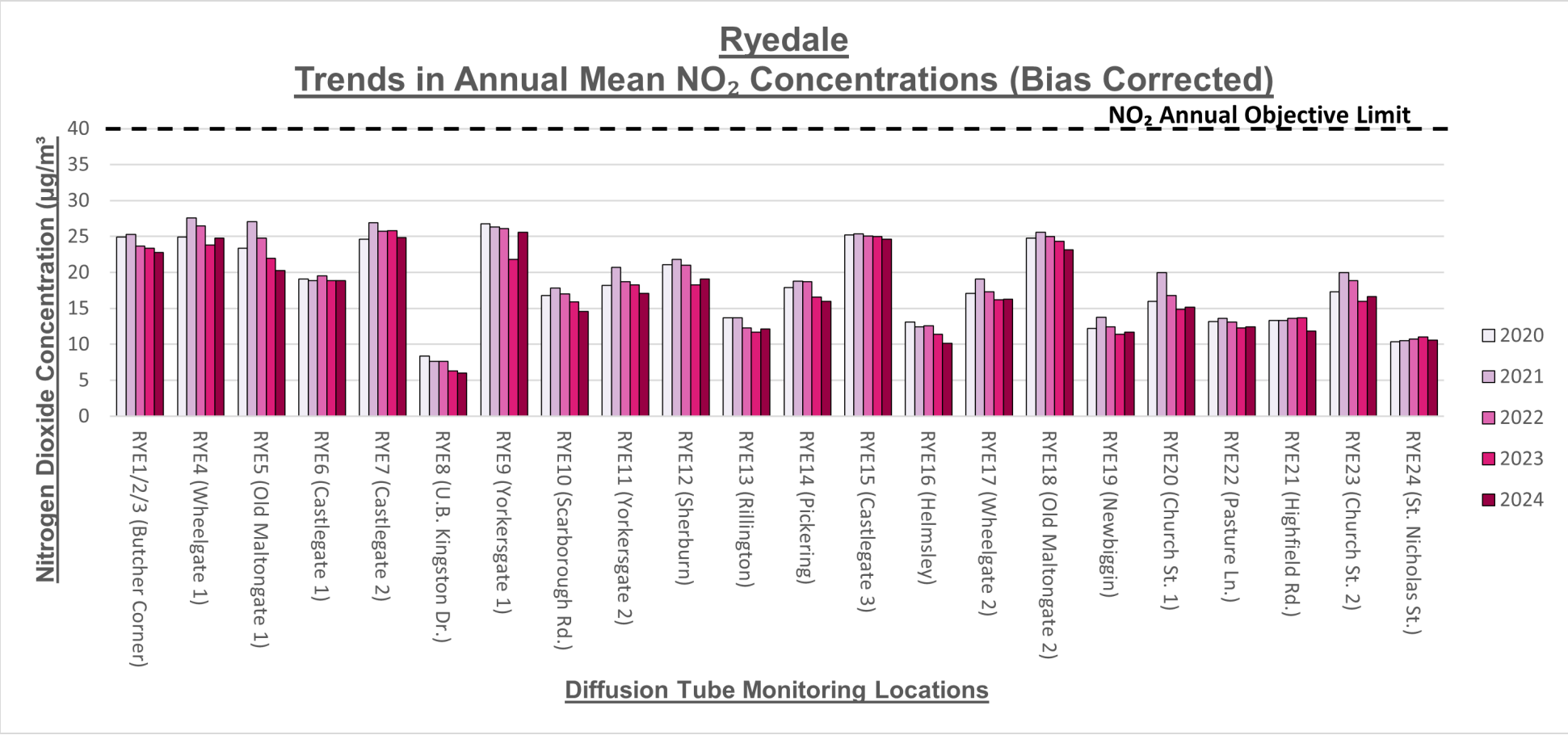

Ryedale
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
NO2 Annual Objective Limit
Nitrogen Dioxide Concentration (µg/m³)
40
35
30
25
20
15
10
5
0
RYE1/2/3 (Butcher Corner)
RYE4 (Wheelgate 1)
RYE5 (Old Maltongate 1)
RYE6 (Castlegate 1)
RYE7 (Castlegate 2)
RYE8 (U.B. Kingston Dr.)
RYE9 (Yorkersgate 1)
RYE10 (Scarborough Rd.)
RYE11 (Yorkersgate 2)
RYE12 (Sherburn)
RYE13 (Rillington)
RYE14 (Pickering)
RYE15 (Castlegate 3)
RYE16 (Helmsley)
RYE17 (Wheelgate 2)
RYE18 (Old Maltongate 2)
RYE19 (Newbiggin)
RYE20 (Church St. 1)
RYE22 (Pasture Ln.)
RYE21 (Highfield Rd.)
RYE23 (Church St. 2)
RYE24 (St. Nicholas St.)
2020
2021
2022
2023
2024
Diffusion Tube Monitoring Locations

**Figure A.14**

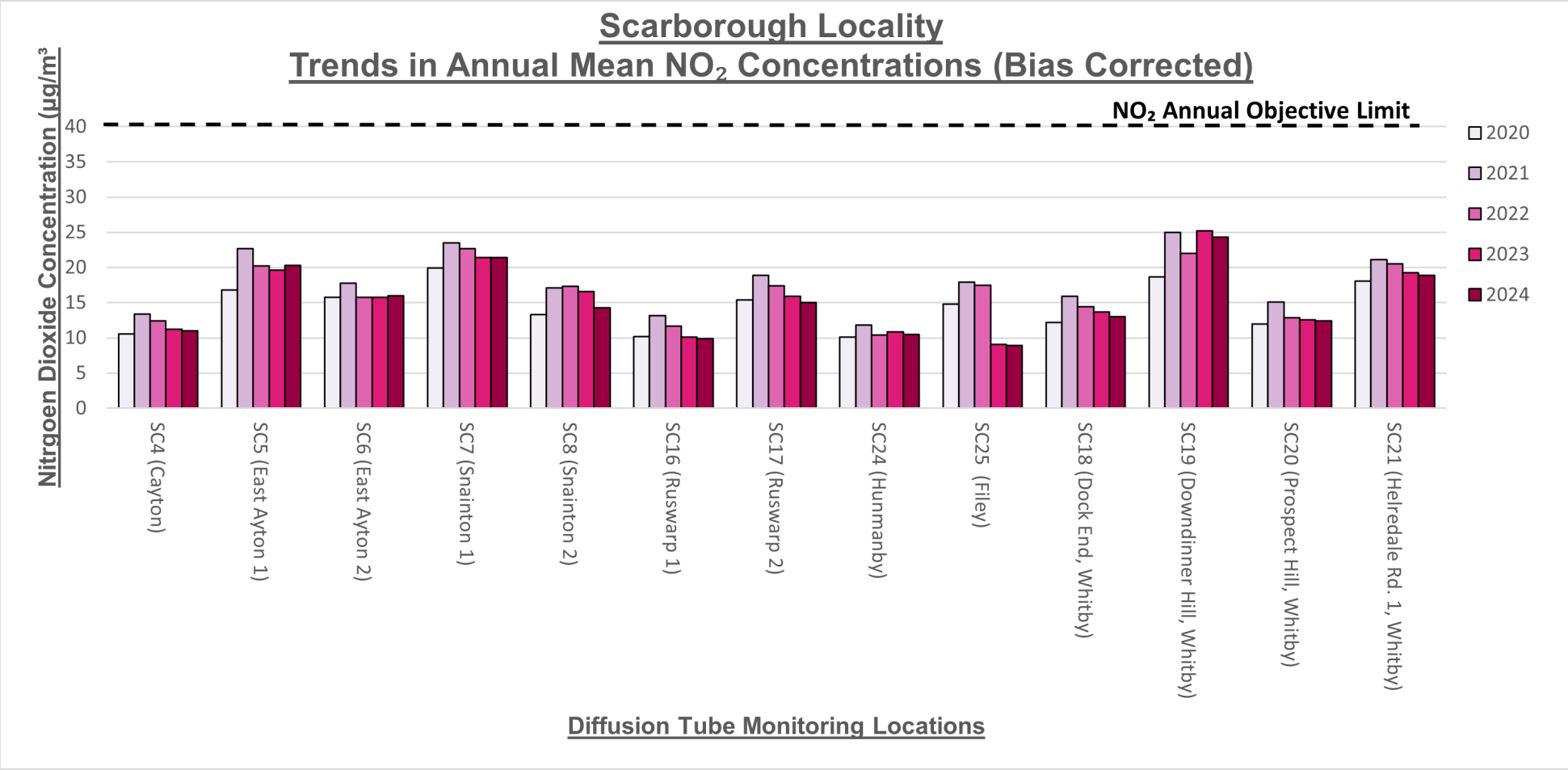

Scarborough Locality
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
NO2 Annual Objective Limit
Nitrgoen Dioxide Concentration (µg/m³)
40
35
30
25
20
15
10
5
0
2020
2021
2022
2023
2024
SC4 (Cayton)
SC5 (East Ayton 1)
SC6 (East Ayton 2)
SC7 (Snainton 1)
SC8 (Snainton 2)
SC16 (Ruswarp 1)
SC17 (Ruswarp 2)
SC24 (Hunmanby)
SC25 (Filey)
SC18 (Dock End, Whitby)
SC19 (Downdinner Hill, Whitby)
SC20 (Prospect Hill, Whitby)
SC21 (Helredale Rd. 1, Whitby)
Diffusion Tube Monitoring Locations

**Figure A.15**

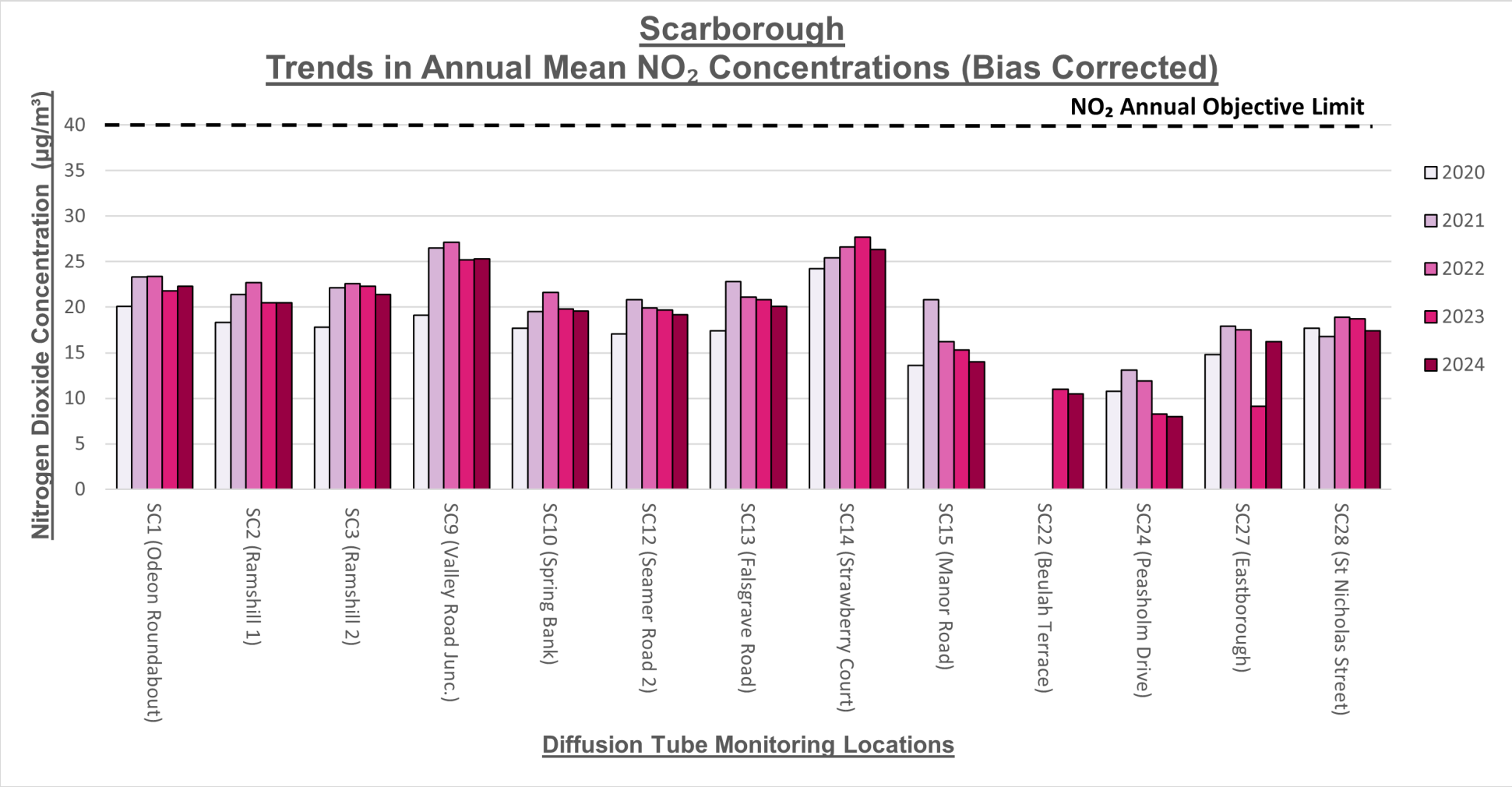

Scarborough
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
NO2 Annual Objective Limit
Nitrogen Dioxide Concentration (µg/m³)
40
35
30
25
20
15
10
5
0
2020
2021
2022
2023
2024
SC1 (Odeon Roundabout)
SC2 (Ramshill 1)
SC3 (Ramshill 2)
SC9 (Valley Road Junc.)
SC10 (Spring Bank)
SC12 (Seamer Road 2)
SC13 (Falsgrave Road)
SC14 (Strawberry Court)
SC15 (Manor Road)
SC22 (Beulah Terrace)
SC24 (Peasholm Drive)
SC27 (Eastborough)
SC28 (St Nicholas Street)
Diffusion Tube Monitoring Locations

**Figure A.16**

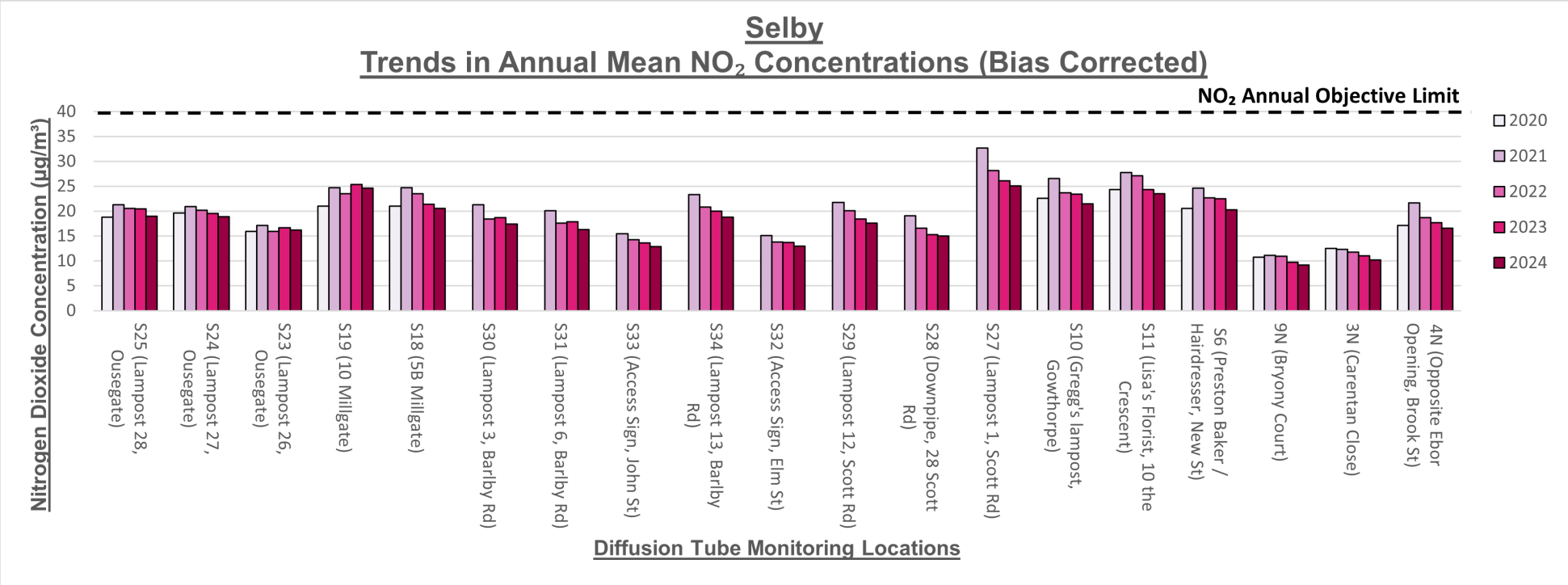

Selby
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
NO2 Annual Objective Limit
Nitrogen Dioxide Concentration (µg/m³)
40
35
30
25
20
15
10
5
0
2020
2021
2022
2023
2024
S25 (Lampost 28, Ousegate)
S24 (Lampost 27, Ousegate)
S23 (Lampost 26, Ousegate)
S19 (10 Millgate)
S18 (5B Millgate)
S30 (Lampost 3, Barlby Rd)
S31 (Lampost 6, Barlby Rd)
S33 (Access Sign, John St)
S34 (Lampost 13, Barlby Rd)
S32 (Access Sign, Elm St)
S29 (Lampost 12, Scott Rd)
S28 (Downpipe, 28 Scott Rd)
S27 (Lampost 1, Scott Rd)
S10 (Gregg's lampost, Gowthorpe)
S11 (Lisa's Florist, 10 the Crescent)
S6 (Preston Baker / Hairdresser, New St)
9N (Bryony Court)
3N (Carentan Close)
4N (Opposite Ebor Opening, Brook St)
Diffusion Tube Monitoring Locations

**Figure A.17**

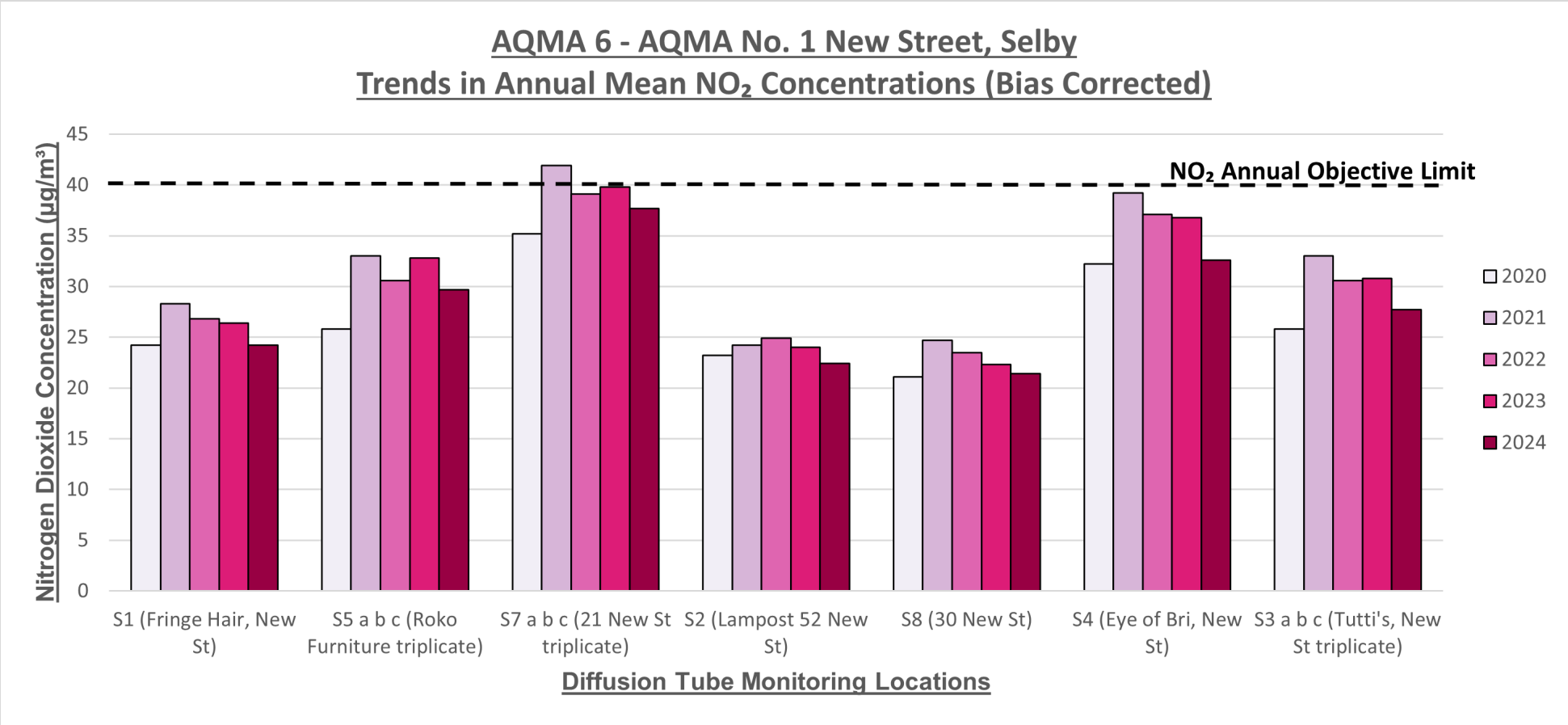
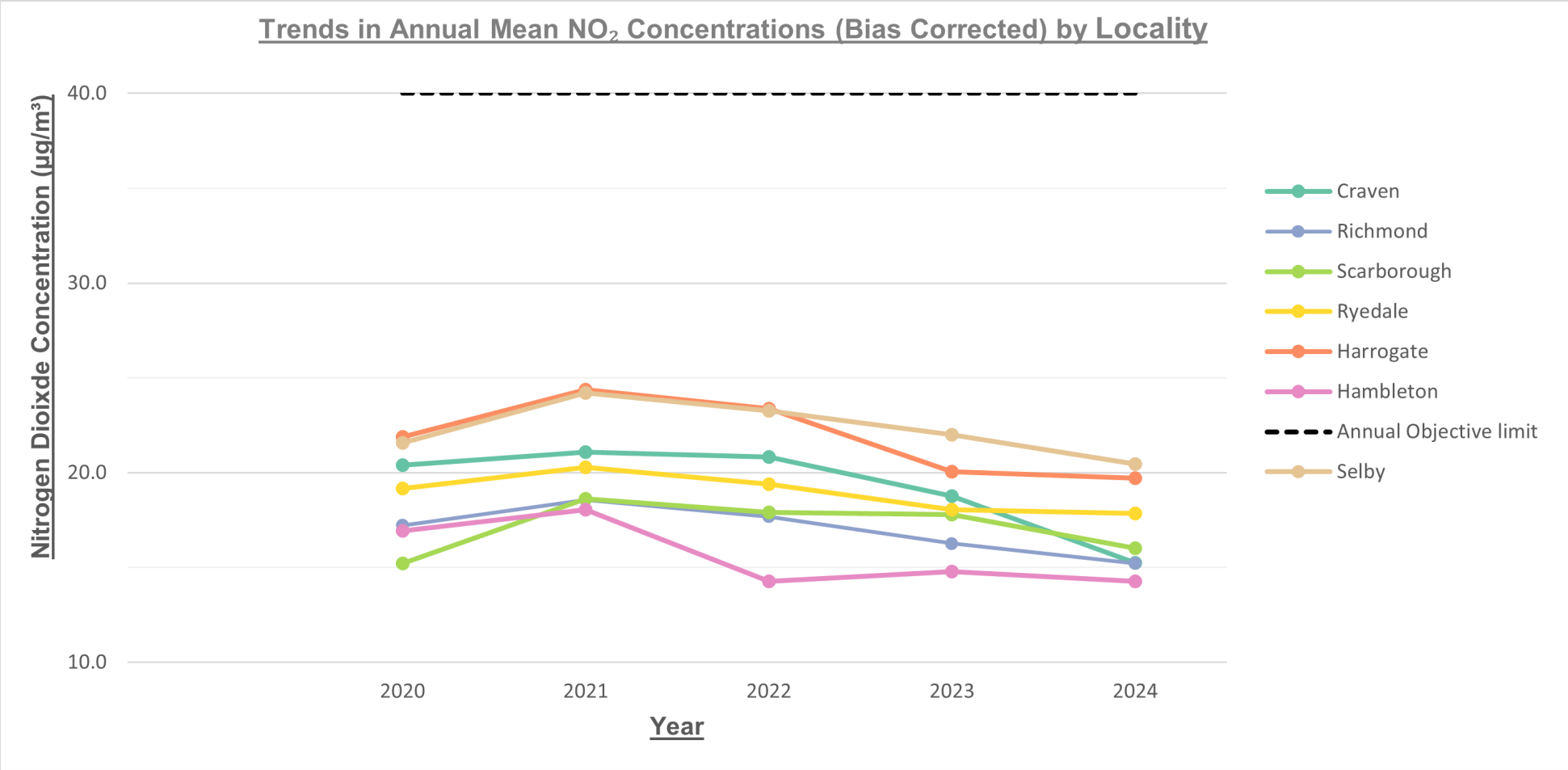

AQMA 6 - AQMA No. 1 New Street, Selby
Trends in Annual Mean NO2 Concentrations (Bias Corrected)
Nitrogen Dioxide Concentration (µg/m³)
45
40
35
30
25
20
15
10
5
0
NO2 Annual Objective Limit
2020
2021
2022
2023
2024
S1 (Fringe Hair, New St)
S5 a b c (Roko Furniture triplicate)
S7 a b c (21 New St triplicate)
S2 (Lampost 52 New St)
S8 (30 New St)
S4 (Eye of Bri, New St)
S3 a b c (Tutti's, New St triplicate)
Diffusion Tube Monitoring Locations

**Figure A.18 – Annual Mean $NO_2$ Concentrations by Locality**



# Appendix B: Full Monthly Diffusion Tube Results for 2024

### Table B.1 – $NO_2$ 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 (0.78) Socotec | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R2 | 417180 | 501125 | 17.9 | 21.3 | 23.8 | 17.4 | 20.7 | 21.9 | 18.7 | 13.4 | 20.0 | 21.2 | 21.0 | 15.9 | 19.4 | 15.2 | - | |
| R3 | 418066 | 501490 | 14.2 | 16.9 | 13.7 | 9.2 | 12.5 | 12.7 | 10.2 | 8.6 | 11.3 | 14.4 | 13.9 | 7.0 | 12.1 | 9.4 | - | |
| R4 | 418504 | 501455 | 5.0 | 8.8 | 6.3 | 4.9 | 5.0 | 5.3 | 3.9 | 2.8 | 3.1 | 8.4 | 9.4 | 7.4 | 5.9 | 4.6 | - | |
| R6 | 419207 | 506509 | 18.4 | 22.6 | 22.1 | 16.9 | 18.7 | 17.4 | 13.8 | 14.1 | 16.2 | 18.2 | 18.1 | 18.7 | 17.9 | 14.0 | - | |
| R8 | 417179 | 501127 | 25.9 | | 28.0 | 17.3 | 23.0 | 24.0 | 21.1 | 20.7 | 20.9 | 25.9 | 26.5 | 7.9 | 21.9 | 17.1 | - | |
| R10 | 417381 | 501281 | 24.1 | 30.6 | 31.8 | 24.5 | 25.8 | 26.4 | 24.7 | 17.0 | 20.4 | 26.9 | 31.8 | 20.3 | 25.4 | 19.8 | - | |
| R11 | 417377 | 501317 | 24.3 | 28.4 | 33.2 | 26.5 | 26.2 | 31.9 | 22.0 | 24.0 | 22.7 | 28.4 | 29.1 | 24.2 | 26.7 | 20.9 | - | |
| R12 | 417542 | 501275 | 16.9 | 21.0 | 22.1 | 15.0 | 17.5 | 18.5 | 16.8 | 13.9 | 18.5 | 33.6 | 27.8 | 20.9 | 20.2 | 15.8 | - | |
| R13 | 417536 | 501258 | 19.3 | 22.4 | 24.3 | 18.8 | 20.6 | 17.9 | 17.4 | 14.3 | 18.5 | 22.5 | 25.1 | 17.3 | 19.9 | 15.5 | - | |
| R15 | 417500 | 501263 | 14.4 | 24.2 | 24.1 | 17.2 | 18.2 | 18.3 | 15.5 | 13.9 | 14.6 | 23.2 | 21.5 | 18.7 | 18.7 | 14.5 | - | |
| R16 | 417451 | 501269 | 20.1 | 28.1 | 27.3 | 20.2 | 26.4 | 26.9 | 24.2 | 20.8 | 22.3 | 26.8 | 26.9 | 20.0 | 24.2 | 18.9 | - | |
| R17 | 417370 | 501262 | 17.3 | 20.5 | 25.1 | 16.3 | 19.6 | 20.8 | 18.4 | 15.0 | 15.7 | 23.2 | 23.9 | 14.2 | 19.2 | 15.0 | - | |
| R18 | 417661 | 501297 | 19.1 | 26.6 | 25.2 | 15.3 | 18.9 | 21.4 | 16.6 | 15.9 | 19.1 | 23.0 | 26.1 | 18.4 | 20.5 | 16.0 | - | |
| R19 | 417312 | 501037 | 19.0 | 22.9 | 22.5 | 15.0 | 17.0 | 20.1 | 13.5 | 13.0 | 17.2 | 21.8 | 14.3 | 17.7 | 17.8 | 13.9 | - | |
| R20 | 420754 | 498280 | 23.8 | 28.4 | 24.1 | 17.1 | 19.4 | 22.9 | 18.9 | 18.3 | 18.3 | 25.0 | | 19.4 | 21.4 | 16.7 | - | |
| HDC28 | 426733 | 488169 | 24.8 | 14.5 | 20.8 | 15.6 | 14.3 | 15.1 | 14.8 | 13.4 | 12.3 | 24.2 | 23.6 | | 17.6 | 13.7 | - | |
| HDC29 | 426702 | 488141 | 20.6 | 17.7 | 16.9 | 15.8 | 14.7 | 11.5 | 11.6 | 10.1 | 20.2 | 18.0 | 25.2 | | 16.6 | 12.9 | - | |
| HDC30 | 426681 | 488132 | 23.8 | 26.2 | 21.9 | 21.8 | 19.8 | 17.9 | | 16.0 | 21.0 | 22.1 | 29.1 | | 22.0 | 17.1 | - | |
| HDC4 | 436558 | 493326 | 31.9 | 24.1 | 30.6 | 23.2 | 21.3 | 22.0 | 21.3 | 18.7 | 26.3 | 26.6 | 32.7 | | 25.3 | 19.8 | - | |
| HDC3 | 437714 | 493626 | 11.6 | 9.4 | 8.1 | 8.1 | 6.7 | 5.5 | | | | | | | 8.2 | 6.8 | - | |
| HDC2 | 435858 | 492676 | 14.1 | 11.6 | 9.9 | 7.5 | 7.7 | 5.4 | 6.7 | 4.9 | 7.6 | 11.4 | 19.0 | | 9.6 | 7.5 | - | |
| HDC5 | 442384 | 481510 | 19.1 | 11.7 | 9.4 | 8.2 | 7.6 | 6.1 | 6.5 | | 15.4 | 13.1 | 17.0 | | 11.4 | 8.9 | - | |
| HDC6 | 453011 | 469267 | | 9.6 | 8.6 | 8.5 | 7.3 | 5.3 | 6.3 | 5.3 | 7.4 | 11.4 | 18.3 | | 8.8 | 6.9 | - | |
| HDC7 | 427096 | 487894 | 8.9 | 8.0 | 8.5 | 7.5 | 6.0 | 4.3 | 5.3 | 5.3 | 7.6 | 9.9 | 12.8 | | 7.6 | 6.0 | - | |

| 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 (0.78) Socotec | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HDC8 | 456243 | 510859 | 11.5 | 4.3 | 7.1 | 7.5 | 6.3 | 4.8 | 5.4 | 4.2 | 6.0 | 7.8 | 12.9 | | 7.1 | 5.5 | - | |
| HDC10 | 427530 | 488821 | 13.8 | 11.9 | 12.5 | 11.1 | 11.4 | 8.2 | 8.5 | 5.4 | 12.1 | 12.8 | 18.9 | | 11.5 | 9.0 | - | |
| HDC61 | 456345 | 511088 | 11.6 | 14.2 | 11.0 | 12.5 | 10.3 | 9.8 | 10.3 | 8.3 | 8.5 | | 19.0 | | 11.6 | 9.0 | - | |
| HDC62 | 432463 | 491936 | | 12.5 | 11.7 | 8.7 | 9.7 | 7.7 | 8.1 | 8.5 | 7.8 | 12.6 | 17.7 | | 10.5 | 8.2 | - | |
| HDC63 | 436652 | 479787 | 12.3 | 14.4 | 12.1 | 11.6 | 10.2 | 10.0 | 9.0 | 8.4 | 11.6 | 16.3 | 19.9 | | 12.3 | 9.6 | - | |
| HDC64 | 455278 | 458663 | 32.9 | 21.2 | 19.6 | 17.3 | 17.3 | 12.6 | 13.7 | 13.7 | 17.2 | 23.1 | 34.0 | | 20.2 | 15.8 | - | |
| HDC53 | 437037 | 493967 | 27.3 | | 17.9 | 18.3 | 18.5 | 15.6 | 14.2 | 16.1 | 13.4 | 21.6 | 26.9 | | 19.0 | 14.8 | - | |
| HDC54 | 437039 | 493873 | 29.6 | 27.5 | 23.4 | 23.9 | 22.6 | 20.2 | 17.9 | 16.2 | 21.5 | 25.7 | 34.6 | | 23.9 | 18.7 | - | |
| HDC55 | 437121 | 493879 | 20.2 | 15.7 | 13.4 | 12.4 | 9.9 | 7.8 | 10.3 | 9.6 | 9.0 | 16.0 | 17.9 | | 12.9 | 10.1 | - | |
| HDC56 | 437140 | 493852 | 21.4 | 18.2 | 15.3 | 13.2 | 12.1 | 8.9 | 11.9 | 13.3 | 12.3 | 16.7 | 24.7 | | 15.3 | 11.9 | - | |
| HDC57 | 437176 | 493762 | 19.4 | 13.1 | 11.3 | 10.6 | 10.4 | 9.1 | 9.3 | 7.8 | 9.4 | 14.0 | 22.4 | | 12.4 | 9.7 | - | |
| HDC12 | 436885 | 494104 | 25.1 | 24.2 | 23.1 | 25.2 | 24.7 | 18.4 | 18.4 | 16.5 | 27.0 | 23.8 | 34.2 | | 23.7 | 18.5 | - | |
| HDC13 | 436877 | 494087 | 35.5 | 34.7 | 29.7 | 25.7 | 23.9 | 21.8 | 21.1 | 24.3 | 17.5 | 31.5 | 29.2 | | 26.8 | 20.9 | - | |
| HDC14 | 436886 | 494091 | 26.8 | 34.2 | 30.8 | 26.0 | 23.8 | 20.7 | 22.0 | 21.6 | 22.2 | 32.4 | 36.9 | | 27.0 | 21.1 | - | |
| HDC15 | 436933 | 494101 | 31.0 | 31.0 | 24.7 | 24.0 | 21.8 | 16.9 | 18.7 | 19.9 | 18.8 | 26.5 | 35.1 | | 24.4 | 19.0 | - | |
| HDC16 | 436950 | 494105 | 29.6 | 30.2 | 16.7 | 17.0 | 20.9 | 19.1 | 18.6 | 22.9 | 19.5 | 27.5 | 25.9 | | 22.5 | 17.6 | - | |
| HDC17 | 436963 | 494107 | 18.8 | 21.0 | 25.6 | 22.2 | 14.2 | 13.1 | 13.0 | 13.5 | 14.2 | 14.0 | 25.4 | | 17.7 | 13.8 | - | |
| HDC65 | 436156 | 496385 | 23.7 | 19.9 | 17.5 | 14.3 | 11.9 | 12.0 | 11.6 | 12.1 | 14.4 | 19.6 | 27.3 | | 16.8 | 13.1 | - | |
| HDC66 | 436492 | 495337 | 19.8 | 17.1 | 15.5 | 12.5 | 10.4 | 8.6 | 10.5 | 12.9 | 11.8 | 18.2 | 29.1 | | 15.1 | 11.8 | - | |
| HDC67 | 437039 | 495291 | 20.5 | 12.8 | 14.0 | 12.1 | 9.9 | 10.1 | 10.2 | 12.0 | 9.4 | 20.1 | 25.5 | | 14.2 | 11.1 | - | |
| HDC68 | 437182 | 495273 | 22.1 | 15.7 | 14.9 | 12.3 | 11.8 | 10.4 | 9.9 | 9.7 | 11.0 | 18.8 | 28.6 | | 15.0 | 11.7 | - | |
| HDC39 | 437109 | 494970 | 21.7 | 16.7 | 13.7 | 13.5 | 11.7 | 8.7 | 9.7 | 13.0 | 11.2 | 12.8 | 21.2 | | 14.0 | 10.9 | - | |
| HDC40 | 437083 | 494958 | 22.1 | 25.8 | 21.5 | 21.0 | 21.8 | 18.0 | 18.4 | 13.6 | 20.0 | 24.1 | 26.7 | | 21.2 | 16.5 | - | |
| HDC41 | 436988 | 494596 | 31.2 | 28.4 | 22.7 | 21.7 | 19.7 | 14.6 | 16.3 | 15.0 | 14.6 | 26.4 | 33.9 | | 22.2 | 17.3 | - | |
| HDC42 | 436999 | 494584 | 26.0 | 23.3 | 20.7 | 19.3 | 17.2 | 15.0 | 16.5 | 16.2 | 15.2 | 24.5 | 29.2 | | 20.3 | 15.8 | - | |
| HDC43 | 436995 | 494515 | 27.7 | 19.7 | 23.3 | 22.5 | 20.1 | 19.0 | 17.1 | 18.3 | 18.2 | 26.7 | 27.3 | | 21.8 | 17.0 | - | |
| HDC44 | 436973 | 494436 | 32.8 | 30.4 | 23.7 | 23.0 | 19.9 | 12.8 | 16.8 | 19.4 | 18.9 | 24.3 | 27.2 | | 22.7 | 17.7 | - | |
| HDC45 | 436975 | 494395 | 27.6 | 24.7 | 18.1 | 23.1 | 20.8 | 14.4 | 14.1 | 14.6 | 20.7 | 25.0 | 30.4 | | 21.2 | 16.6 | - | |
| HDC46 | 436934 | 494296 | 32.6 | 30.6 | 23.6 | 26.4 | 23.5 | 18.8 | 18.4 | 17.5 | 23.0 | 30.4 | 27.1 | | 24.7 | 19.3 | - | |
| HDC47 | 436923 | 494220 | 25.6 | 27.8 | 21.5 | 22.5 | 22.7 | 15.7 | 16.3 | 15.3 | 19.7 | 25.6 | 33.5 | | 22.4 | 17.5 | - | |
| HDC48 | 436973 | 494519 | 26.4 | 16.7 | 17.2 | 17.4 | 19.3 | 13.5 | 10.5 | 10.0 | 13.5 | 20.8 | 17.5 | | 16.6 | 13.0 | - | |

| 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 (0.78) Socotec | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HDC49 | 436907 | 494500 | 18.8 | 16.3 | 11.5 | 12.3 | 11.4 | 7.7 | 8.2 | 6.7 | 9.3 | 13.6 | 20.9 | | 12.4 | 9.7 | - | |
| HDC50 | 436717 | 494395 | 21.1 | 18.4 | 8.1 | 12.5 | 11.9 | 8.6 | 11.0 | 9.7 | 11.0 | 21.1 | 21.0 | | 14.0 | 10.9 | - | |
| HDC51 | 436691 | 494388 | 21.4 | 20.3 | 13.7 | 12.4 | 15.4 | 12.9 | 12.0 | 10.5 | 16.4 | 23.3 | 29.8 | | 17.1 | 13.3 | - | |
| HDC52 | 436680 | 494362 | 23.4 | 20.8 | 17.3 | 15.7 | 13.8 | 12.8 | 12.7 | 13.6 | 12.7 | 22.2 | 17.2 | | 16.6 | 12.9 | - | |
| HDC33 | 442783 | 481896 | 32.3 | 19.3 | 24.8 | 28.1 | 25.2 | 22.4 | 20.8 | 18.9 | 26.4 | 25.1 | 29.6 | | 24.8 | 19.4 | - | |
| HDC34 | 442815 | 481915 | 42.8 | 39.4 | 30.4 | | 28.3 | 31.4 | 29.3 | 26.5 | 34.2 | 30.6 | 44.1 | | 33.7 | 26.3 | - | |
| HDC35 | 442871 | 481943 | 32.2 | 28.8 | 23.0 | 23.3 | 18.4 | 16.6 | 19.2 | 16.4 | 23.8 | 24.1 | 32.2 | | 23.5 | 18.3 | - | |
| HDC59 | 436893 | 493526 | 33.9 | 33.8 | 27.9 | 27.3 | 21.8 | 20.1 | 22.4 | 23.1 | 23.0 | 22.0 | 36.2 | | 26.5 | 20.7 | - | |
| HDC60 | 436879 | 493572 | 23.4 | 24.2 | 23.1 | 24.6 | 23.1 | 14.5 | 16.8 | 12.0 | 25.7 | 21.1 | 33.0 | | 22.0 | 17.1 | - | |
| HDC69 | 436461 | 493175 | 17.7 | 14.4 | 14.9 | 13.3 | 11.6 | 12.7 | 13.6 | 11.7 | 13.0 | 15.9 | 23.4 | | 14.7 | 11.5 | - | |
| HDC70 | 428885 | 490128 | | | | | | | | 30.7 | 35.5 | 32.6 | 48.3 | | 36.8 | 25.6 | - | |
| RYE1 | 478739 | 471656 | 33.4 | 31.3 | 26.2 | 24.7 | | 26.1 | 23.6 | 25.4 | 24.9 | 33.8 | 39.2 | | - | - | - | Triplicate Site with RYE1, RYE2 and RYE3 - Annual data provided for RYE3 only |
| RYE2 | 478704 | 471732 | 33.1 | | 28.1 | 28.8 | 27.4 | 29.1 | 25.7 | 27.0 | 28.2 | 34.8 | 33.8 | | - | - | - | Triplicate Site with RYE1, RYE2 and RYE3 - Annual data provided for RYE3 only |
| RYE3 | 478844 | 471733 | 35.5 | 32.6 | 27.8 | 25.5 | 26.1 | 27.4 | 24.2 | 26.4 | 26.4 | 31.8 | | | 29.2 | 22.8 | - | Triplicate Site with RYE1, RYE2 and RYE3 - Annual data provided for RYE3 only |
| RYE4 | 478843 | 471596 | 34.7 | 44.8 | 30.8 | 28.8 | 27.9 | 27.6 | 23.4 | 26.8 | 28.1 | 36.5 | 39.9 | | 31.8 | 24.8 | - | |
| RYE5 | 479028 | 471541 | | 29.6 | 26.7 | 25.4 | 29.0 | 23.8 | 23.1 | 21.0 | 17.4 | 29.9 | 34.4 | | 26.0 | 20.3 | - | |
| RYE6 | 479869 | 470761 | 29.0 | 29.3 | 23.5 | 20.3 | 22.0 | 19.1 | | 19.5 | 23.5 | 26.8 | 28.9 | | 24.2 | 18.9 | - | |
| RYE7 | 478661 | 471630 | | 36.4 | 29.2 | 32.1 | | 29.9 | 27.3 | 26.8 | 31.6 | 33.9 | 39.4 | | 31.8 | 24.8 | - | |
| RYE8 | 479668 | 471463 | 8.1 | 10.9 | 8.8 | 6.2 | 5.9 | 4.2 | | 5.1 | 7.0 | 7.9 | 12.7 | | 7.7 | 6.0 | - | |
| RYE9 | 478552 | 471609 | 35.4 | 39.5 | 33.4 | | 29.4 | 30.7 | 25.3 | 31.6 | 27.5 | 37.7 | 37.2 | | 32.8 | 25.6 | - | |
| RYE10 | 495854 | 476759 | 26.1 | 13.4 | 17.2 | 19.9 | 20.7 | 14.9 | 11.7 | 13.9 | 24.3 | 18.9 | 24.1 | | 18.6 | 14.5 | - | |
| RYE11 | 485362 | 474416 | 26.2 | 24.7 | 22.2 | 18.7 | 22.2 | 17.6 | 17.8 | 17.0 | 25.9 | 22.3 | 26.6 | | 21.9 | 17.1 | - | |
| RYE12 | 479942 | 483826 | 29.1 | 24.6 | 31.9 | 20.3 | 25.5 | 20.4 | 17.6 | 21.5 | 22.3 | 25.9 | 30.2 | | 24.5 | 19.1 | - | |
| RYE13 | 478927 | 471559 | 18.8 | 15.0 | 16.9 | 13.9 | 14.1 | | | 13.0 | 12.7 | 16.1 | 19.8 | | 15.6 | 12.2 | - | |
| RYE14 | 461282 | 483821 | 28.5 | 23.4 | 17.8 | 20.5 | 18.8 | 17.4 | 14.9 | 16.2 | 18.3 | 24.3 | 25.0 | | 20.5 | 16.0 | - | |
| RYE15 | 478608 | 471881 | 37.4 | 35.5 | 31.8 | 29.4 | 32.0 | 29.4 | 25.8 | 26.7 | 32.4 | 31.6 | 35.5 | | 31.6 | 24.6 | - | |
| RYE16 | 478911 | 471767 | 15.6 | 17.4 | 14.8 | 10.9 | 12.3 | 9.1 | 8.1 | 9.9 | 12.0 | 16.2 | 17.1 | | 13.0 | 10.2 | - | |
| RYE17 | 478440 | 472037 | 24.1 | 22.9 | 21.7 | 19.5 | 21.3 | 14.6 | 13.1 | | 23.4 | 22.8 | 25.7 | | 20.9 | 16.3 | - | |
| RYE18 | 479120 | 471398 | 31.5 | 36.7 | 30.5 | 22.4 | 26.9 | 27.3 | 23.1 | 25.3 | 30.5 | 35.1 | 36.9 | | 29.7 | 23.1 | - | |

| 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 (0.78) Socotec | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RYE19 | 479363 | 472468 | 19.1 | 12.2 | 15.0 | 17.2 | 13.1 | | | 8.3 | 13.7 | 15.7 | 20.3 | | 15.0 | 11.7 | - | |
| RYE20 | 478792 | 472377 | 25.3 | 24.8 | 20.1 | 15.9 | 16.8 | 14.7 | 12.9 | 15.6 | 17.8 | 23.0 | 26.9 | | 19.4 | 15.2 | - | |
| RYE22 | 479288 | 471386 | 21.8 | 17.5 | 14.3 | 14.3 | 14.1 | 13.2 | | 11.6 | 12.2 | 20.1 | 20.2 | | 15.9 | 12.4 | - | |
| RYE21 | 479173 | 471281 | 19.8 | 20.1 | 10.1 | 14.0 | 11.9 | 13.7 | 11.2 | 11.0 | 14.1 | 20.1 | 21.3 | | 15.2 | 11.9 | - | |
| RYE23 | 479288 | 471386 | 26.3 | 24.5 | 20.9 | 17.9 | 20.6 | 16.4 | | 14.2 | 19.6 | 23.8 | 29.6 | | 21.4 | 16.7 | - | |
| RYE24 | 479173 | 471281 | 23.1 | | 13.9 | 11.8 | 9.3 | 9.0 | | 7.7 | 10.2 | 16.2 | 20.6 | | 13.5 | 10.6 | - | |
| H1 | 428594 | 458666 | 21.1 | 22.0 | 17.8 | 15.3 | 16.1 | 15.3 | 17.0 | 19.2 | 17.7 | 26.7 | 25.5 | 20.5 | 19.5 | 15.2 | - | |
| H2 | 431044 | 471039 | | | 27.2 | 22.1 | 20.8 | 14.9 | 15.7 | | 22.2 | 25.7 | 28.9 | 20.0 | 21.9 | 17.1 | - | |
| H4 | 431087 | 471100 | 42.8 | 41.6 | 32.9 | 36.4 | 37.0 | 33.2 | 30.7 | 29.2 | 33.4 | 33.8 | 24.2 | 34.5 | - | - | - | Triplicate Site with H4, H5 and H25 - Annual data provided for H25 only |
| H5 | 431087 | 471100 | 44.8 | 41.8 | 39.6 | 38.7 | 35.8 | 33.1 | 30.3 | 29.4 | 28.2 | 36.9 | 20.1 | | - | - | - | Triplicate Site with H4, H5 and H25 - Annual data provided for H25 only |
| H6 | 431189 | 471146 | 28.4 | 23.8 | 15.0 | 19.7 | 18.5 | 15.4 | 13.3 | 14.0 | 14.1 | 17.8 | 23.4 | 23.9 | 18.9 | 14.8 | - | |
| H7 | 431110 | 471124 | 21.9 | 19.5 | 25.7 | 23.9 | 19.9 | 18.7 | 16.8 | 20.6 | 17.8 | 27.5 | 26.2 | 20.5 | 21.6 | 16.8 | - | |
| H8 | 431155 | 471216 | 31.2 | 35.7 | 34.3 | 30.9 | 32.7 | 27.5 | 22.4 | | 22.0 | 35.5 | 34.8 | 29.5 | 30.6 | 23.9 | - | |
| H9 | 431135 | 471186 | 31.3 | 31.0 | 29.3 | 30.0 | 29.0 | 24.7 | 25.1 | 22.6 | 23.3 | 26.5 | 36.4 | 32.6 | 28.5 | 22.2 | - | |
| H10 | 431146 | 471258 | 21.7 | 25.1 | 28.1 | 26.8 | 29.0 | 19.4 | 21.8 | | 22.1 | 30.4 | 28.1 | 30.5 | 25.7 | 20.1 | - | |
| H12 | 434715 | 457387 | 30.9 | 27.1 | 23.2 | 24.8 | 23.9 | 24.6 | 21.7 | 19.9 | 26.2 | 24.2 | 28.0 | 17.7 | 24.4 | 19.0 | - | |
| H13 | 434707 | 457368 | 47.6 | 47.9 | 46.0 | 38.4 | 33.4 | 38.4 | 34.0 | 42.1 | 34.1 | 34.3 | 38.8 | 31.5 | 38.9 | 30.3 | - | |
| H14 | 434759 | 457375 | 34.5 | | 24.2 | 40.5 | 39.2 | 40.7 | 36.7 | 39.1 | 33.9 | 42.0 | 38.8 | 24.0 | 35.8 | 27.9 | - | |
| H15 | 434804 | 457358 | 30.9 | 30.1 | 33.7 | 31.5 | 27.6 | 36.9 | 28.2 | 32.6 | 26.5 | 27.1 | 37.2 | 28.0 | - | - | - | Triplicate Site with H15, H59 and H60 - Annual data provided for H60 only |
| H16 | 434763 | 457388 | 34.8 | 29.3 | 34.0 | 30.0 | | 24.3 | 24.4 | 23.3 | | | 33.2 | 26.5 | 28.9 | 22.5 | - | |
| H17 | 434725 | 457405 | 23.6 | 23.3 | 25.1 | 23.1 | 22.9 | 16.6 | 15.9 | 19.5 | 25.6 | 21.6 | | 15.8 | 21.2 | 16.5 | - | |
| H18 | 435210 | 456918 | 35.4 | 32.9 | 30.5 | 27.6 | 24.2 | 30.3 | 27.7 | 28.0 | | 27.5 | 32.1 | 21.8 | 28.9 | 22.5 | - | |
| H19 | 435012 | 457084 | 32.1 | 31.5 | 31.4 | 24.9 | 24.1 | 27.7 | 23.3 | 26.5 | 18.7 | 33.2 | 30.9 | 22.6 | 27.2 | 21.2 | - | |
| H20 | 435133 | 457009 | 33.0 | 34.3 | 35.8 | 29.7 | 30.9 | 24.8 | 25.0 | 23.6 | 31.6 | 32.5 | 32.0 | 22.9 | 29.7 | 23.1 | - | |
| H21 | 435158 | 456992 | 31.6 | 18.3 | 19.8 | 24.7 | 22.0 | 22.7 | 20.8 | 18.8 | 19.8 | 14.8 | 30.4 | 23.0 | 22.2 | 17.3 | - | |
| H22 | 435224 | 456913 | 32.8 | 29.9 | 34.2 | 31.6 | 31.0 | 36.0 | 31.8 | 30.6 | 26.7 | 34.0 | 29.4 | 28.4 | 31.4 | 24.5 | - | |
| H23 | 432918 | 455959 | 22.1 | 27.8 | 24.3 | 20.5 | 17.9 | | 13.8 | 17.3 | | 23.6 | 20.6 | 20.8 | 20.9 | 16.3 | - | |
| H24 | 432477 | 454805 | 28.0 | 27.5 | 28.0 | 23.3 | 23.8 | 20.8 | 21.6 | 18.5 | 19.4 | 26.7 | 28.6 | 23.7 | 24.2 | 18.8 | - | |
| H25 | 431087 | 471100 | 41.9 | 42.5 | 40.8 | 33.7 | 37.0 | 32.8 | | 25.8 | 33.7 | 34.0 | | | 34.2 | 26.7 | - | Triplicate Site with H4, H5 and H25 - Annual data provided for H25 only |

| 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 (0.78) Socotec | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H26 | 432494 | 454808 | 40.7 | | | | 30.0 | 35.6 | 29.3 | 32.8 | 26.5 | 33.5 | | 32.2 | 32.6 | 27.3 | - | |
| H27 | 441851 | 453686 | 24.3 | 24.9 | 16.1 | 28.9 | 20.2 | 22.0 | 19.2 | | 21.4 | 20.4 | 21.8 | 22.3 | - | - | - | Duplicate Site with H27 and H44 - Annual data provided for H44 only |
| H28 | 429313 | 453820 | 10.9 | 9.0 | 8.5 | 7.3 | 6.6 | 6.2 | 5.3 | 6.9 | 6.2 | 12.1 | 10.4 | 11.9 | 8.4 | 6.6 | - | |
| H29 | 429534 | 456882 | 30.2 | 25.6 | 31.4 | 27.1 | 25.2 | 22.6 | 23.8 | 23.6 | 15.4 | 22.1 | 26.9 | 14.3 | 24.0 | 18.7 | - | |
| H30 | 435137 | 456968 | 39.6 | 45.2 | 34.6 | 31.3 | 31.4 | 43.1 | 35.7 | 40.1 | 22.4 | 37.9 | 29.1 | | 35.5 | 27.7 | - | |
| H33 | 430224 | 456727 | 27.0 | 26.9 | 24.4 | 19.2 | 16.7 | 19.3 | 20.7 | 22.5 | 15.9 | 29.4 | 28.1 | 20.3 | 22.5 | 17.6 | - | |
| H34 | 432508 | 454804 | 36.1 | | 26.2 | 24.5 | 28.0 | 20.0 | 22.4 | 18.0 | 31.4 | 26.2 | 33.1 | 30.2 | 26.9 | 21.0 | - | |
| H35 | 430513 | 456467 | 23.3 | 26.3 | 23.9 | 17.9 | 17.6 | 16.0 | 15.6 | 15.4 | 14.6 | 25.5 | 19.6 | 17.0 | 19.4 | 15.1 | - | |
| H36 | 430925 | 455804 | 20.7 | 20.7 | 20.6 | 18.2 | 17.1 | 15.9 | 14.8 | 16.7 | 16.9 | 22.5 | 23.2 | 12.0 | 18.3 | 14.3 | - | |
| H37 | 430573 | 456436 | 27.5 | 25.2 | 23.2 | 22.9 | 20.7 | 24.9 | 21.7 | 21.8 | 17.6 | 24.8 | 26.7 | 24.0 | 23.4 | 18.3 | - | |
| H38 | 430647 | 456324 | 25.8 | 31.1 | 25.9 | 20.1 | 19.5 | 23.6 | 21.2 | 23.4 | 11.5 | 28.3 | 29.0 | 21.3 | 23.4 | 18.2 | - | |
| H39 | 430995 | 455831 | 51.3 | 30.7 | 40.6 | 41.1 | 41.8 | 29.3 | 31.7 | 25.1 | 39.4 | 37.3 | 45.2 | 30.5 | 37.0 | 28.9 | - | |
| H40 | 430935 | 455826 | 23.6 | 26.0 | 20.7 | 21.8 | 22.3 | 20.6 | 17.7 | 18.8 | 21.7 | 22.9 | 30.8 | 17.8 | 22.1 | 17.2 | - | |
| H41 | 435235 | 456907 | 36.4 | 13.4 | 29.7 | 29.1 | 29.4 | 33.2 | 26.8 | 25.7 | 25.1 | 27.4 | 31.9 | 25.4 | 27.8 | 21.7 | - | |
| H42 | 430367 | 455339 | 48.6 | 45.2 | 42.7 | 39.1 | 38.7 | 43.1 | 38.1 | 34.8 | 30.3 | 26.5 | 48.6 | 38.5 | 39.5 | 30.8 | - | |
| H43 | 430397 | 455194 | 17.9 | 20.3 | 24.2 | 18.0 | 20.0 | 15.4 | 15.2 | 14.5 | 17.3 | 12.0 | | | 17.5 | 13.6 | - | |
| H44 | 441851 | 453686 | 23.0 | 23.6 | 15.8 | 20.2 | 20.3 | 22.5 | 19.4 | 20.6 | | 14.1 | 17.1 | 21.3 | 20.9 | 16.3 | - | Duplicate Site with H27 and H44 - Annual data provided for H44 only |
| H46 | 430535 | 456495 | 23.0 | 27.1 | 24.8 | 17.1 | 16.9 | 14.7 | 14.6 | 13.1 | 16.2 | 27.8 | 25.7 | 17.5 | 19.9 | 15.5 | - | |
| H47 | 430800 | 456572 | 12.5 | 11.0 | 12.2 | 9.7 | 7.7 | | 5.7 | 8.3 | 7.2 | 13.7 | 9.9 | 15.7 | 10.3 | 8.1 | - | |
| H49 | 434623 | 457314 | 29.8 | | 33.5 | 26.6 | 27.3 | 27.8 | 27.0 | 30.9 | 22.3 | 35.1 | 16.7 | 11.1 | 26.2 | 20.4 | - | |
| H50 | 434578 | 457260 | 36.9 | 28.6 | 35.3 | 28.0 | 33.1 | 35.7 | 30.3 | | 26.8 | | 28.0 | 18.0 | 30.1 | 23.5 | - | |
| H51 | 434796 | 457393 | 38.0 | 38.0 | 37.1 | 41.5 | | | 30.9 | 30.8 | 45.7 | 36.4 | 30.9 | 31.1 | 36.0 | 28.1 | - | |
| H52 | 434835 | 457329 | 40.5 | 36.0 | 42.1 | 39.2 | 40.7 | 31.9 | 33.1 | 31.2 | 42.4 | 39.6 | 35.5 | | 37.5 | 29.2 | - | |
| H53 | 435253 | 456893 | | 31.9 | 26.5 | 25.5 | 27.9 | 33.7 | 21.5 | 26.4 | | 25.9 | | 22.4 | 26.9 | 20.9 | - | |
| H54 | 431075 | 471077 | 22.4 | 33.6 | 34.7 | 27.2 | 25.8 | 19.4 | 21.0 | 20.9 | 24.9 | 24.5 | 29.7 | 28.9 | 26.1 | 20.3 | - | |
| H55 | 431102 | 471101 | 33.7 | 33.7 | 32.8 | 27.5 | 24.0 | 25.4 | 22.8 | 26.7 | 20.0 | 34.2 | 32.6 | 33.1 | 28.9 | 22.5 | - | |
| H56 | 431151 | 471119 | 28.6 | 27.9 | 28.6 | 20.7 | 20.5 | 20.4 | 16.3 | 21.1 | 17.4 | 26.1 | 28.1 | 19.7 | 23.0 | 17.9 | - | |
| H57 | 431193 | 471132 | 32.3 | 33.0 | 27.4 | 28.4 | 23.3 | 25.6 | 19.2 | 22.6 | 19.7 | 31.0 | 29.1 | 27.5 | 26.6 | 20.7 | - | |
| H58 | 431242 | 471135 | 27.4 | 18.6 | 21.3 | 21.4 | 18.7 | 21.1 | 16.7 | 19.4 | 14.2 | 21.9 | 25.1 | 18.9 | 20.4 | 15.9 | - | |

| 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 (0.78) Socotec | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H59 | 434804 | 457358 | 35.1 | 35.7 | 32.3 | 30.3 | 29.4 | 37.9 | 28.7 | 32.1 | 23.9 | 34.5 | 33.8 | 24.2 | - | - | - | Triplicate Site with H15, H59 and H60 - Annual data provided for H60 only |
| H60 | 434804 | 457358 | 37.2 | 36.0 | 31.0 | 32.2 | 28.0 | 34.5 | 31.0 | 33.7 | 23.0 | 40.1 | 35.8 | 31.9 | 31.7 | 24.8 | - | Triplicate Site with H15, H59 and H60 - Annual data provided for H60 only |
| H61 | 430478 | 455297 | 29.3 | 23.8 | 28.2 | 25.7 | 23.5 | 24.7 | 23.1 | 22.8 | 20.5 | 31.2 | 34.3 | 23.2 | 25.9 | 20.2 | - | |
| H62 | 430420 | 456798 | 22.4 | | 22.2 | 18.7 | | 14.6 | 14.6 | 16.1 | 15.9 | 20.4 | 22.9 | 16.6 | 18.4 | 14.4 | - | |
| H63 | 430548 | 454832 | 26.1 | 24.2 | 26.4 | 21.7 | | 18.5 | 18.9 | 20.9 | | | 22.8 | | 22.4 | 17.8 | - | |
| H64 | 432806 | 455899 | 22.2 | 29.4 | 26.1 | 20.0 | 17.6 | 17.2 | 14.5 | 20.0 | 15.1 | 25.2 | 25.0 | 22.5 | 21.2 | 16.6 | - | |
| H67 | 429503 | 454275 | | 14.9 | 17.6 | 17.1 | 15.8 | 14.6 | 16.0 | 13.1 | | 20.5 | 21.1 | 16.0 | 16.7 | 13.0 | - | |
| H70 | 431592 | 455297 | | | | | | 15.6 | 18.7 | 15.6 | 28.8 | 27.7 | 22.4 | 25.6 | 22.1 | 17.2 | - | |
| H71 | 431175 | 454782 | | | | | | 8.1 | 6.2 | 8.6 | 8.8 | | 10.0 | 10.5 | 8.7 | 7.2 | - | |

| 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 (0.84) Gradko | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9N | 460899 | 430935 | 15.6 | 15.9 | 10.9 | 7.9 | 7.6 | 8.5 | 8.5 | 9.2 | 8.7 | | 16.5 | | 10.9 | 9.2 | - | |
| 4N | 461096 | 432191 | | 24.0 | 19.2 | 17.8 | 17.4 | 16.7 | 16.9 | | 18.2 | | 28.0 | 19.2 | 19.7 | 16.6 | - | |
| 3N | 460855 | 432820 | 16.4 | 18.5 | 12.3 | 7.9 | 8.6 | 8.3 | 9.9 | 9.9 | 7.2 | 15.9 | 19.0 | | 12.2 | 10.2 | - | |
| S6 | 461635 | 432372 | 30.8 | 28.5 | 24.5 | 23.0 | 22.0 | 20.8 | 21.4 | 19.7 | 28.3 | | | 22.5 | 24.1 | 20.3 | - | |
| S5a | 461659 | 432405 | | | 34.4 | 34.7 | 30.4 | 35.2 | 33.4 | 31.9 | 39.9 | 34.3 | | 34.7 | - | - | - | Triplicate Site with S5a, S5b and S5c - Annual data provided for S5c only |
| S5b | 461659 | 432405 | | | 35.5 | | 30.5 | | 32.1 | | 39.6 | 36.4 | 39.1 | | - | - | - | Triplicate Site with S5a, S5b and S5c - Annual data provided for S5c only |
| S5c | 461659 | 432405 | 37.4 | | 35.2 | 33.9 | 29.5 | 33.4 | 32.9 | 32.0 | | 38.6 | 43.0 | 37.0 | 35.4 | 29.7 | - | Triplicate Site with S5a, S5b and S5c - Annual data provided for S5c only |
| S7a | 461688 | 432434 | 48.5 | 55.2 | 44.6 | 42.4 | 34.7 | 42.0 | 41.0 | 39.4 | 41.4 | 45.3 | 56.1 | 45.0 | - | - | - | Triplicate Site with S7a, S7b and S7c - Annual data provided for S7c only |
| S7b | 461688 | 432434 | | 60.0 | 44.2 | 39.7 | 33.3 | 42.7 | 41.6 | 38.7 | 41.8 | 46.5 | 45.3 | 42.4 | - | - | - | Triplicate Site with S7a, S7b and S7c - Annual data provided for S7c only |
| S7c | 461688 | 432434 | 45.0 | 88.1 | 45.5 | 40.4 | 35.9 | 40.9 | 40.5 | 38.7 | | | | 46.3 | 44.9 | 37.7 | - | Triplicate Site with S7a, S7b and S7c - Annual data provided for S7c only |
| S2 | 461689 | 432422 | 32.8 | 35.8 | 30.6 | 23.0 | 21.0 | 23.0 | 22.7 | 24.3 | 22.7 | 29.9 | | 27.2 | 26.6 | 22.4 | - | |
| S8 | 461697 | 432424 | 29.2 | 31.9 | 27.5 | 25.0 | 19.5 | 20.6 | 21.3 | 22.3 | 20.0 | 31.3 | 32.1 | 24.8 | 25.5 | 21.4 | - | |
| S4 | 461681 | 432407 | 42.8 | 49.6 | 45.1 | 39.7 | 28.6 | 38.9 | 39.7 | 36.1 | 39.1 | 44.5 | 42.6 | 18.5 | 38.8 | 32.6 | - | |
| S3a | 461670 | 432408 | 36.5 | 37.4 | 36.3 | 28.3 | 25.2 | 31.6 | 31.6 | 30.8 | 35.6 | 37.4 | 35.8 | 31.2 | - | - | - | Triplicate Site with S3a, S3b and S3c - Annual data provided for S3c only |
| S3b | 461670 | 432408 | 35.5 | 38.4 | 37.3 | 30.1 | 24.7 | 30.6 | 30.0 | 31.7 | 33.8 | 37.0 | 36.2 | 28.4 | - | - | - | Triplicate Site with S3a, S3b and S3c - Annual data provided for S3c only |
| S3c | 461670 | 432408 | 35.4 | 40.6 | 35.3 | 30.9 | 24.2 | 31.7 | 31.2 | 30.7 | 33.1 | 38.0 | 36.4 | 28.3 | 33.0 | 27.7 | - | Triplicate Site with S3a, S3b and S3c - Annual data provided for S3c only |
| S1 | 461638 | 432345 | 30.0 | 33.9 | 31.4 | 25.1 | 20.9 | | 26.9 | 27.5 | 26.6 | 33.9 | 35.7 | 25.4 | 28.8 | 24.2 | - | |
| S11 | 461507 | 432319 | 29.7 | 34.2 | 30.9 | 24.7 | 23.6 | 25.0 | 25.1 | 24.8 | | 33.8 | 30.4 | 25.6 | 28.0 | 23.5 | - | |
| S10 | 461317 | 432356 | | 30.7 | 24.6 | 23.8 | 24.6 | | | 21.4 | | 26.0 | 33.6 | 29.8 | 26.8 | 21.5 | - | |
| S27 | 461120 | 432303 | | 35.6 | 30.0 | 28.4 | 27.3 | | 28.4 | 24.6 | 24.8 | 31.7 | 35.8 | 32.2 | 29.9 | 25.1 | - | |
| S28 | 461062 | 432475 | 22.3 | 21.2 | 16.1 | 14.6 | 17.0 | 16.2 | 13.9 | 14.2 | 17.0 | 19.7 | 22.3 | 19.3 | 17.8 | 15.0 | - | |
| S29 | 461041 | 432539 | | 27.3 | 21.2 | 18.5 | 19.2 | 17.9 | 19.1 | 18.8 | 14.6 | 25.6 | 28.2 | 20.6 | 21.0 | 17.6 | - | |
| S32 | 461871 | 432643 | 19.1 | 21.8 | 16.4 | 10.5 | 10.4 | 19.5 | 11.1 | 11.8 | 11.0 | 18.1 | 20.2 | | 15.4 | 13.0 | - | |
| S34 | 461938 | 432710 | 27.6 | 28.9 | 24.1 | 18.7 | 17.1 | 17.4 | 17.8 | 18.4 | 20.7 | 23.8 | 31.6 | | 22.4 | 18.8 | - | |
| S33 | 461935 | 432672 | 19.0 | 20.4 | 15.9 | 12.2 | | | 11.2 | 13.0 | | 17.8 | 21.8 | | 16.4 | 12.9 | - | |
| S31 | 461852 | 432594 | 24.3 | 27.2 | 20.1 | 16.7 | 14.9 | 14.9 | 14.7 | 17.1 | 18.4 | 22.0 | 23.8 | | 19.5 | 16.3 | - | |

| 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 (0.84) Gradko | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S30 | 461806 | 432546 | 29.9 | 27.6 | 21.7 | 17.9 | 14.8 | 15.6 | 16.5 | 17.2 | 18.4 | 22.9 | 26.1 | | 20.8 | 17.4 | - | |
| S18 | 461517 | 432582 | 26.1 | 30.5 | 23.9 | 21.0 | 23.4 | 22.8 | 20.5 | 25.2 | 19.1 | 27.8 | 30.5 | 23.3 | 24.5 | 20.6 | - | |
| S19 | 461526 | 432584 | 33.2 | 31.5 | 29.4 | 28.3 | 29.3 | 24.6 | 25.0 | 27.1 | 30.3 | 33.9 | 32.3 | 26.1 | 29.2 | 24.6 | - | |
| S23 | 461821 | 432376 | 24.9 | 25.5 | 18.5 | 15.3 | 15.5 | | 14.1 | 16.2 | 14.4 | 21.7 | 26.7 | | 19.3 | 16.2 | - | |
| S24 | 461788 | 432379 | 24.8 | 29.6 | 23.8 | 19.3 | 17.6 | 19.0 | 18.4 | 21.6 | 16.4 | | 33.3 | 23.2 | 22.5 | 18.9 | - | |
| S25 | 461762 | 432408 | 26.6 | 27.5 | 21.5 | 20.2 | 23.2 | 18.9 | 18.5 | 18.9 | 19.5 | 24.9 | 28.4 | 24.0 | 22.7 | 19.0 | - | |
| S35 | 461617 | 432148 | 28.7 | 28.4 | 25.2 | 20.8 | 21.8 | 18.6 | 19.4 | 19.7 | | | 27.1 | 23.3 | 23.3 | 19.6 | - | |
| C1 | 366749 | 469197 | 16.2 | 17.4 | 13.8 | 13.9 | 13.7 | 13.1 | 13.6 | 11.0 | 15.2 | 15.4 | 19.1 | 17.5 | 15.0 | 12.6 | - | |
| C2 | 381959 | 463625 | 19.1 | 23.5 | 18.4 | 16.9 | 17.0 | 13.3 | 14.0 | 13.5 | 12.7 | 19.0 | 22.2 | 17.2 | 17.2 | 14.5 | - | |
| C3 | 399103 | 451611 | 23.6 | 31.2 | 20.6 | 18.4 | 19.1 | 18.5 | 18.8 | 17.7 | 15.7 | 25.0 | 30.2 | 24.1 | 21.9 | 18.4 | - | |
| C4 | 398820 | 451196 | 18.1 | 23.0 | 18.7 | 15.3 | 15.4 | 11.3 | 12.1 | | 17.4 | 19.5 | 22.9 | 17.1 | 17.3 | 14.6 | - | |
| C5 | 400629 | 444999 | 22.7 | 35.8 | 27.9 | 15.5 | 27.1 | 21.6 | 23.1 | 20.7 | 25.7 | 29.2 | 31.3 | 24.9 | 25.5 | 21.4 | - | |
| C6 | 400811 | 445217 | 19.1 | 28.2 | 20.7 | 18.5 | 18.7 | 13.1 | 16.1 | 12.8 | 20.0 | 19.9 | 14.1 | 17.0 | 18.2 | 15.3 | - | |
| C7 | 397795 | 451308 | 15.7 | 20.9 | 14.0 | 11.6 | 12.2 | 8.8 | 10.7 | 10.7 | 13.1 | 18.7 | 18.4 | 15.2 | 14.1 | 11.9 | - | |
| C8 | 398898 | 451835 | 16.9 | 21.8 | 17.1 | 13.8 | 14.8 | 12.5 | 12.8 | 14.0 | 13.2 | 18.7 | 23.1 | 17.5 | 16.3 | 13.7 | - | |
| C9 | 400006 | 444760 | 20.8 | 24.8 | 19.2 | 18.5 | 18.6 | 16.7 | 15.8 | 15.2 | 20.6 | 20.9 | 24.6 | 20.3 | 19.7 | 16.5 | - | |
| C10 | 393272 | 454225 | 22.7 | 28.8 | 21.4 | 21.5 | 21.0 | 22.6 | 22.5 | 20.6 | 17.8 | 23.4 | 27.9 | 8.3 | 21.5 | 18.1 | - | |
| C11 | 385397 | 456675 | 18.8 | 21.3 | 15.0 | 14.3 | 14.6 | 15.3 | 15.1 | 13.4 | 13.5 | 17.6 | 22.3 | 17.9 | 16.6 | 13.9 | - | |
| C12 | 401212 | 445224 | 16.0 | 20.3 | 16.3 | 13.2 | 13.2 | 9.2 | 11.2 | 11.1 | 14.6 | | 21.4 | 13.6 | 14.5 | 12.2 | - | |
| SC1 | 503929 | 488389 | 22.6 | 33.6 | 29.7 | 24.7 | 25.1 | | 27.1 | 25.9 | 24.0 | 33.8 | 23.7 | 21.4 | 26.5 | 22.3 | | |
| SC2 | 504094 | 487815 | 19.1 | 26.3 | 25.0 | 24.2 | 26.0 | 22.8 | 25.1 | 22.1 | 26.9 | 27.1 | 28.5 | 19.4 | 24.4 | 20.5 | | |
| SC3 | 504109 | 487497 | 20.0 | 27.2 | 25.6 | 25.3 | 26.6 | 24.3 | 27.0 | 24.5 | 25.4 | 26.8 | 28.3 | | 25.5 | 21.4 | | |
| SC4 | 505466 | 483378 | 13.4 | 16.7 | 13.1 | 11.2 | 11.4 | 10.7 | 11.0 | 10.7 | 11.8 | 17.1 | 16.7 | | 13.1 | 11.0 | | |
| SC5 | 498998 | 484889 | 21.9 | 29.2 | 25.0 | 25.0 | 24.3 | 22.0 | 21.5 | 21.1 | | 26.9 | 26.4 | 23.2 | 24.2 | 20.3 | | |
| SC6 | 499023 | 484885 | 20.0 | 23.8 | 16.2 | 16.9 | 17.2 | 17.2 | 16.9 | 20.0 | 14.3 | 23.1 | 23.6 | | 19.0 | 16.0 | | |
| SC7 | 492186 | 482266 | 23.6 | 32.3 | 25.9 | 23.0 | 24.6 | 24.5 | 23.5 | 25.1 | 21.5 | 27.9 | 28.2 | 25.6 | 25.5 | 21.4 | | |
| SC8 | 492161 | 482291 | 16.6 | 21.3 | 16.8 | 15.2 | | 14.2 | 15.2 | | | 18.5 | 18.7 | 16.6 | 17.0 | 14.3 | | |
| SC9 | 503288 | 487538 | 23.4 | 35.8 | 31.5 | 24.2 | 32.5 | 30.2 | 34.0 | 25.3 | 35.3 | 35.6 | 28.0 | 25.7 | 30.1 | 25.3 | | |
| SC10 | 503273 | 487523 | | 27.2 | 24.7 | 21.9 | 22.8 | 19.0 | 24.3 | | 23.5 | 24.6 | 23.8 | 21.1 | 23.3 | 19.6 | | |
| SC12 | 503218 | 487940 | 25.7 | 27.0 | 24.0 | 21.2 | 21.9 | 18.0 | 19.6 | 17.3 | 26.9 | 22.7 | 27.7 | | 22.9 | 19.2 | | |
| SC13 | 503088 | 487922 | 21.0 | 31.5 | 27.4 | 20.3 | 24.5 | 22.0 | 24.2 | 19.0 | 22.4 | 28.8 | 23.0 | 23.3 | 23.9 | 20.1 | | |
| SC14 | 503045 | 488003 | 27.8 | 38.2 | 30.7 | 27.7 | 29.6 | 29.2 | 30.6 | 28.2 | 30.0 | 37.0 | 36.6 | 30.6 | 31.4 | 26.3 | | |

| 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 (0.84) Gradko | Annual Mean: Distance Corrected to Nearest Exposure | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SC15 | 502929 | 488227 | 17.2 | 22.7 | 20.4 | 15.3 | 16.3 | 13.7 | 9.4 | 10.9 | 15.6 | 20.1 | 21.2 | 17.6 | 16.7 | 14.0 | | |
| SC16 | 488913 | 509314 | 10.8 | 13.6 | 18.3 | 10.3 | 10.5 | 9.5 | 10.9 | 9.3 | 13.6 | 13.7 | 11.4 | 9.6 | 11.8 | 9.9 | | |
| SC17 | 488912 | 509271 | 16.2 | 24.3 | 11.8 | 15.7 | 17.0 | 16.6 | 16.4 | 18.4 | 17.0 | 23.5 | 20.6 | 17.6 | 17.9 | 15.0 | | |
| SC18 | 489863 | 510887 | 14.4 | 17.3 | 15.4 | 12.6 | 16.8 | 11.9 | 16.3 | 16.5 | 16.3 | 19.0 | 16.0 | 13.5 | 15.5 | 13.0 | | |
| SC19 | 489388 | 510619 | 22.9 | 37.3 | 32.4 | | | 24.7 | 26.6 | 30.9 | 16.9 | 34.6 | | | 28.3 | 23.8 | | |
| SC20 | 489277 | 510331 | 13.2 | 17.4 | 15.3 | 13.2 | 13.8 | 13.8 | 13.0 | 14.7 | 14.6 | 17.7 | 15.5 | 14.6 | 14.7 | 12.4 | | |
| SC21 | 490370 | 509314 | 18.0 | 23.6 | 23.3 | 19.9 | 24.0 | | 37.2 | 17.8 | 21.4 | | 22.1 | 17.4 | 22.5 | 18.9 | | |
| SC22 | 503741 | 488079 | 14.3 | 15.9 | | 10.9 | 11.3 | 8.7 | 10.7 | 9.0 | 14.2 | | 15.9 | 14.4 | 12.5 | 10.5 | | |
| SC24 | 503615 | 489367 | 8.9 | 13.3 | 10.6 | 6.6 | 7.5 | 6.4 | 7.5 | 7.3 | 7.1 | 14.7 | 13.3 | 11.1 | 9.5 | 8.0 | | |
| SC25 | 509679 | 477308 | 14.2 | 16.8 | 13.3 | 10.8 | 10.6 | 10.1 | 10.4 | 11.0 | 10.6 | | 16.1 | 13.9 | 12.5 | 10.5 | | |
| SC26 | 511698 | 480664 | 10.7 | 14.3 | 11.5 | 8.3 | 8.9 | 8.1 | 9.3 | 9.3 | 6.9 | 14.5 | 13.7 | 11.1 | 10.5 | 8.9 | | |
| SC27 | 504703 | 488799 | 15.4 | 24.6 | 18.6 | 16.4 | | 18.4 | 22.7 | 17.9 | 13.9 | 23.8 | 22.0 | 18.1 | 19.2 | 16.2 | | |
| SC28 | 504357 | 488553 | 18.6 | 23.8 | 21.0 | 20.0 | 21.1 | 19.1 | 20.5 | 19.4 | 20.9 | 23.0 | 22.1 | 19.5 | 20.7 | 17.4 | | |

☒ **All erroneous data has been removed from the $NO_2$ 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.**

☒ **North Yorkshire Council confirm that all 2024 diffusion tube data has been uploaded to the Diffusion Tube Data Entry System**.

**Notes:**

Exceedances of the $NO_2$ annual mean objective of 40µg/$m^3$ are shown in **bold**.

$NO_2$ annual means exceeding 60µg/$m^3$, indicating a potential exceedance of the $NO_2$ 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 North Yorkshire Council During 2024

NYC has not identified any new significant negative sources relating to air quality within the reporting year of 2024.

## Additional Air Quality Works Undertaken by North Yorkshire Council During 2024

NYC has not undertaken any other works other than those reported in the 2024 year.

## QA/QC of Diffusion Tube Monitoring

The nitrogen dioxide diffusion tubes across NYC are supplied and analysed by two separate laboratories:

- Socotec Didcot for the localities of Richmond, Hambleton, Ryedale, and Harrogate; the Socotec tubes are prepared with 50% triethanolamine (TEA) in acetone.
- Gradko for the localities of Selby, Craven and Scarborough; the Gradko tubes are prepared with 20% TEA in water.

All the monitoring has been completed in adherence with the 2024 Diffusion Tube Monitoring Calendar. The consolidation of diffusion tubes suppliers and methodology took place at the end of 2024 monitoring year, which allows a smoother transition to one supplier and further consistency across the next monitoring year.
The samples have been analysed in accordance with Socotec's standard operating procedure ANU/SOP/1015. This method meets the guidelines set out in Defra's 'Diffusion Tubes for Ambient NO2 Monitoring: Practical Guidance'. This analysis of diffusion tube samples to determine the amount of nitrogen dioxide present on tubes is within the scope of the Socotec UKAS schedule.

Gradko follow the procedures set out in the document Diffusion Tubes for Ambient NO2 Monitoring: Practical Guidance.

Socotec and Gradko have both taken part in the Air $NO_2$ Proficiency Testing Scheme. There were four results for 2024, for all periods both laboratories had 100% satisfactory results.

The results of precision testing show that Socotec had 30 Good and 3 Poor precision results for 2024, and Gradko had 26 Good and 0 Poor precision results for 2024. Tube precision is separated into two categories, “Good” or “Poor;” tubes are considered to have good precision where the coefficient of variation of duplicate or triplicate diffusion tubes for eight or more periods during the year is less than 20% and the average CV of all monitoring periods is less than 10%.

### Diffusion Tube Annualisation

Annualisation has been carried out for nine sites, with data capture ranging from 4 to 8 months. The Diffusion Tube Data Processing Tool has been used to carry out the annualisation for 2024. Data from Automatic monitoring sites at York Bootham and York Fishergate have been used.

### Table C.1 – Annualisation Summary (concentrations presented in µg/m$^3$)

| Site ID | Annualisation Factor -York Fishergate | Annualisation Factor - York Bootham | Average Annualisation Factor | Raw Data Annual Mean | Annualised Annual Mean |
|---|---|---|---|---|---|
| HDC3 | 1.0731 | 1.0586 | 1.0659 | 8.2 | 8.8 |
| HDC70 | 0.8867 | 0.8986 | 0.8926 | 36.8 | 32.8 |
| H26 | 1.0629 | 1.0895 | 1.0762 | 32.6 | 35.1 |
| H63 | 1.0407 | 0.9917 | 1.0162 | 22.4 | 22.8 |
| H70 | 0.9900 | 1.0043 | 0.9972 | 22.1 | 22.0 |
| H71 | 1.0484 | 1.0633 | 1.0559 | 8.7 | 9.2 |
| S10 | 0.9618 | 0.9476 | 0.9547 | 26.8 | 25.6 |
| S33 | 0.9549 | 0.9141 | 0.9345 | 16.4 | 15.3 |
| SC19 | 1.0324 | 1.0161 | 1.0243 | 28.3 | 23.8 |

### Diffusion Tube Bias Adjustment Factors

The diffusion tube data presented within the 2025 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 with regard to 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.

The localities of Richmond, Hambleton, Ryedale, and Harrogate use Socotec Didcot laboratory and have applied a national bias adjustment factor of 0.78 to the 2024 monitoring data, taken from the 04/25 version of the spreadsheet, which was comprised of 33 studies.

The localities of Selby, Craven and Scarborough use Gradko laboratory and have applied a national bias adjustment factor of 0.84 to the 2024 monitoring data, this was taken from the 04/25 version of the spreadsheet, which was comprised of 27 studies. NYC does not undertake automatic monitoring and therefore has not conducted a triplicate co-location study to allow for determination of a local bias factor. A summary of bias adjustment factors used over the past five years is presented in Table C.2 and C.3.

### Table C.2 – Bias Adjustment Factor Socotec

| Monitoring Year | Local or National | If National, Version of National Spreadsheet | Adjustment Factor |
|---|---|---|---|
| **2024** | National | 04/25 | 0.78 |
| **2023** | National | 03/24 | 0.77 |
| **2022** | National | 03/23 | 0.76 |
| **2021** | National | 03/22 | 0.78 |
| **2020** | National | 03/21 | 0.77 |

### Table C.3 – Bias Adjustment Factor Gradko

| Monitoring Year | Local or National | If National, Version of National Spreadsheet | Adjustment Factor |
|---|---|---|---|
| **2024** | National | 04/25 | 0.84 |
| **2023** | National | 03/24 | 0.81 |
| **2022** | National | 03/23 & 09/23 | 0.83 & 0.85 |
| **2021** | National | 03/22 | 0.84 |
| **2020** | National | 03/21 | 0.81 |

## Table C.4 Bias Adjustment Factor Calculation – version 04/25

Socotec – 50% TEA in Acetone – Overall factor used 0.78.

**National Diffusion Tube Bias Adjustment Factor Spreadsheet** — Spreadsheet Version Number: 04/25

Follow the steps below **in the correct order** to show the results of **relevant** co-location studies
Data only apply to tubes exposed monthly and are not suitable for correcting individual short-term monitoring periods
Whenever presenting adjusted data, you should state the adjustment factor used and the version of the spreadsheet
This spreadsheet will be updated every few months: the factors may therefore be subject to change. This should not discourage their immediate use.

This spreadsheet will be updated at the end of June 2025
LAQM Helpdesk Website

The LAQM Helpdesk is operated on behalf of Defra and the Devolved Administrations by Bureau Veritas, in conjunction with contract partners AECOM and the National Physical Laboratory.

Spreadsheet maintained by the National Physical Laboratory. Original compiled by Air Quality Consultants Ltd.

**Step 1:** Select the Laboratory that Analyses Your Tubes from the Drop-Down List — If a laboratory is not shown, we have no data for this laboratory.

**Step 2:** Select a Preparation Method from the Drop-Down List — If a preparation method is not shown, we have no data for this method at this laboratory.

**Step 3:** Select a Year from the Drop-Down List — If a year is not shown, we have no data[2]

**Step 4:** Where there is only one study for a chosen combination, you should use the adjustment factor shown with caution. Where there is more than one study, use the overall factor[3] shown in blue at the foot of the final column.

If you have your own co-location study then see footnote[4]. If uncertain what to do then contact the Local Air Quality Management Helpdesk at LAQMHelpdesk@bureauveritas.com or 0800 0327953

| Analysed By[1] | Method (To only view your co-location, choose (All) from the pop-up list) | Year[2] (To only view your co-location, choose (All)) | Site Type | Local Authority | Length of Study (months) | Diffusion Tube Mean Conc. (Dm) (µg/m³) | Automatic Monitor Mean Conc. (Cm) (µg/m³) | Bias (B) | Tube Precision[4] | Bias Adjustment Factor (A) (Cm/Dm) |
|---|---|---|---|---|---|---|---|---|---|---|
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | R | City Of York Council | 11 | 26 | 20 | 31.0% | G | **0.76** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | R | East Suffolk Council | 9 | 26 | 20 | 32.8% | G | **0.75** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | KS | Marylebone Road Intercomparison | 10 | 47 | 36 | 30.5% | G | **0.77** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | UB | Hull City Council | 10 | 21 | 16 | 25.4% | P | **0.80** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | R | Hull City Council | 9 | 27 | 20 | 35.3% | G | **0.74** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | R | Waverley Borough Council | 10 | 21 | 18 | 13.7% | G | **0.88** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | R | Waverley Borough Council | 11 | 22 | 16 | 32.3% | G | **0.76** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | R | Wrexham County Borough Council | 10 | 15 | 13 | 17.0% | G | **0.85** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | UB | Gravesham Borough Council | 11 | 21 | 19 | 9.7% | P | **0.91** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | R | Slough Borough Council | 11 | 35 | 24 | 43.5% | G | **0.70** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | R | Slough Borough Council | 11 | 26 | 20 | 32.6% | G | **0.75** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | R | Slough Borough Council | 11 | 23 | 17 | 34.0% | G | **0.75** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | R | Slough Borough Council | 10 | 31 | 23 | 33.4% | G | **0.75** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | R | Slough Borough Council | 11 | 30 | 23 | 33.7% | G | **0.75** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | R | Thanet Distric Council | 10 | 19 | 15 | 24.3% | G | **0.80** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | UB | Wirral Council | 9 | 14 | 12 | 19.9% | G | **0.83** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | R | Derry City And Strabane District Council | 11 | 28 | 32 | -11.8% | G | **1.13** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | UB | Derry City And Strabane District Council | 11 | 11 | 7 | 58.1% | G | **0.63** |
| SOCOTEC Didcot | 50% TEA in Acetone | 2024 | R | Horsham District Council | 11 | 22 | 17 | 31.1% | G | **0.76** |
| SOCOTEC Didcot | 50% TEA in Acetone | 2024 | R | Leeds City Council | 10 | 36 | 28 | 32.5% | G | **0.75** |
| SOCOTEC Didcot | 50% TEA in Acetone | 2024 | KS | Leeds City Council | 11 | 29 | 20 | 42.7% | G | **0.70** |
| SOCOTEC Didcot | 50% TEA in Acetone | 2024 | R | Leeds City Council | 11 | 24 | 18 | 36.4% | G | **0.73** |
| SOCOTEC Didcot | 50% TEA in Acetone | 2024 | UC | Leeds City Council | 10 | 25 | 19 | 31.2% | G | **0.76** |
| SOCOTEC Didcot | 50% TEA in Acetone | 2024 | R | Huntingdonshire District Council | 10 | 28 | 23 | 21.1% | G | **0.83** |
| SOCOTEC Didcot | 50% TEA in Acetone | 2024 | R | North East Lincolnshire Council | 11 | 39 | 21 | 84.1% | G | **0.54** |
| SOCOTEC Didcot | 50% TEA in Acetone | 2024 | UB | North East Lincolnshire Council | 10 | 12 | 10 | 20.0% | G | **0.83** |
| SOCOTEC Didcot | 50% TEA in Acetone | 2024 | R | North East Lincolnshire Council | 11 | 21 | 18 | 15.7% | G | **0.86** |
| SOCOTEC Didcot | 50% TEA in acetone | 2024 | | **Overall Factor[3] (33 studies)** | | | | **Use** | | **0.78** |

## Table C.5 Bias Adjustment Factor Calculation – version 04/25

Gradko – 20% TEA in Water – Overall factor used 0.84.

**National Diffusion Tube Bias Adjustment Factor Spreadsheet** — Spreadsheet Version Number: 04/25

Follow the steps below **in the correct order** to show the results of **relevant** co-location studies
Data only apply to tubes exposed monthly and are not suitable for correcting individual short-term monitoring periods
Whenever presenting adjusted data, you should state the adjustment factor used and the version of the spreadsheet
This spreadsheet will be updated every few months: the factors may therefore be subject to change. This should not discourage their immediate use.

This spreadsheet will be updated at the end of June 2025
LAQM Helpdesk Website

The LAQM Helpdesk is operated on behalf of Defra and the Devolved Administrations by Bureau Veritas, in conjunction with contract partners AECOM and the National Physical Laboratory.

Spreadsheet maintained by the National Physical Laboratory. Original compiled by Air Quality Consultants Ltd.

**Step 1:** Select the Laboratory that Analyses Your Tubes from the Drop-Down List — If a laboratory is not shown, we have no data for this laboratory.

**Step 2:** Select a Preparation Method from the Drop-Down List — If a preparation method is not shown, we have no data for this method at this laboratory.

**Step 3:** Select a Year from the Drop-Down List — If a year is not shown, we have no data[2]

**Step 4:** Where there is only one study for a chosen combination, you should use the adjustment factor shown with caution. Where there is more than one study, use the overall factor[3] shown in blue at the foot of the final column.

If you have your own co-location study then see footnote[4]. If uncertain what to do then contact the Local Air Quality Management Helpdesk at LAQMHelpdesk@bureauveritas.com or 0800 0327953

| Analysed By[1] | Method (To only view your co-location, choose (All) from the pop-up list) | Year[2] (To only view your co-location, choose (All)) | Site Type | Local Authority | Length of Study (months) | Diffusion Tube Mean Conc. (Dm) (µg/m³) | Automatic Monitor Mean Conc. (Cm) (µg/m³) | Bias (B) | Tube Precision[4] | Bias Adjustment Factor (A) (Cm/Dm) |
|---|---|---|---|---|---|---|---|---|---|---|
| Gradko | 20% TEA in water | 2024 | UV | Belfast City Council | 10 | 24 | 20 | 19.9% | G | **0.83** |
| Gradko | 20% TEA in water | 2024 | R | Belfast City Council | 12 | 43 | 34 | 28.8% | G | **0.78** |
| Gradko | 20% TEA in water | 2024 | R | Belfast City Council | 12 | 24 | 21 | 13.9% | G | **0.88** |
| Gradko | 20% TEA in water | 2024 | R | Belfast City Council | 12 | 34 | 27 | 25.5% | G | **0.80** |
| Gradko | 20% TEA in water | 2024 | R | Blackburn With Darwen Bc | 12 | 22 | 17 | 32.9% | G | **0.75** |
| Gradko | 20% TEA in water | 2024 | R | Bath & North East Somerset | 12 | 25 | 20 | 22.6% | G | **0.82** |
| Gradko | 20% TEA in water | 2024 | R | Cambridge City Council | 12 | 19 | 15 | 28.5% | G | **0.78** |
| Gradko | 20% TEA in water | 2024 | UB | Plymouth City Council | 12 | 16 | 14 | 13.8% | G | **0.88** |
| Gradko | 20% TEA in water | 2024 | R | Plymouth City Council | 12 | 31 | 23 | 33.4% | S | **0.75** |
| Gradko | 20% TEA in water | 2024 | R | Monmouthshire County Council | 12 | 29 | 24 | 19.4% | G | **0.84** |
| Gradko | 20% TEA in water | 2024 | KS | Marylebone Road Intercomparison | 11 | 41 | 36 | 16.1% | G | **0.86** |
| Gradko | 20% TEA in water | 2024 | R | Lisburn & Castlereagh City Council | 12 | 24 | 19 | 27.8% | G | **0.78** |
| Gradko | 20% TEA in water | 2024 | R | Ards And North Down Borough Council | 11 | 28 | 20 | 44.5% | G | **0.69** |
| Gradko | 20% TEA in water | 2024 | R | Eastleigh Borough Council | 12 | 29 | 24 | 20.3% | G | **0.83** |
| Gradko | 20% TEA in water | 2024 | UB | Eastleigh Borough Council | 12 | 19 | 17 | 12.4% | G | **0.89** |
| Gradko | 20% TEA in water | 2024 | R | Eastleigh Borough Council | 12 | 19 | 17 | 12.0% | G | **0.89** |
| Gradko | 20% TEA in water | 2024 | R | Gateshead Council | 12 | 20 | 18 | 13.9% | G | **0.88** |
| Gradko | 20% TEA in water | 2024 | R | Gateshead Council | 11 | 20 | 17 | 13.7% | G | **0.84** |
| Gradko | 20% TEA in water | 2024 | R | Gateshead Council | 12 | 24 | 20 | 21.7% | G | **0.82** |
| Gradko | 20% TEA in water | 2024 | R | Gateshead Council | 12 | 27 | 23 | 18.0% | G | **0.84** |
| Gradko | 20% TEA in water | 2024 | R | Gateshead Council | 12 | 28 | 30 | -6.0% | G | **1.06** |
| Gradko | 20% TEA in water | 2024 | R | Brighton & Hove City Council | 11 | 34 | 27 | 26.3% | G | **0.79** |
| Gradko | 20% TEA in water | 2024 | R | Liverpool City Council | 12 | 34 | 25 | 35.7% | G | **0.74** |
| Gradko | 20% TEA in water | 2024 | KS | Liverpool City Council | 10 | 52 | 47 | 10.2% | G | **0.91** |
| Gradko | 20% TEA in water | 2024 | R | Nottingham City Council | 10 | 29 | 26 | 12.2% | G | **0.89** |
| Gradko | 20% TEA in water | 2024 | R | Wychavon District Council | 10 | 29 | 26 | 14.7% | G | **0.87** |
| Gradko | 20% TEA in water | 2024 | R | Worcestershire | 12 | 12 | 12 | -3.4% | G | **1.04** |
| Gradko | 20% TEA in water | 2024 | | **Overall Factor[3] (27 studies)** | | | | **Use** | | **0.84** |

### NO2 Fall-off with Distance from the Road

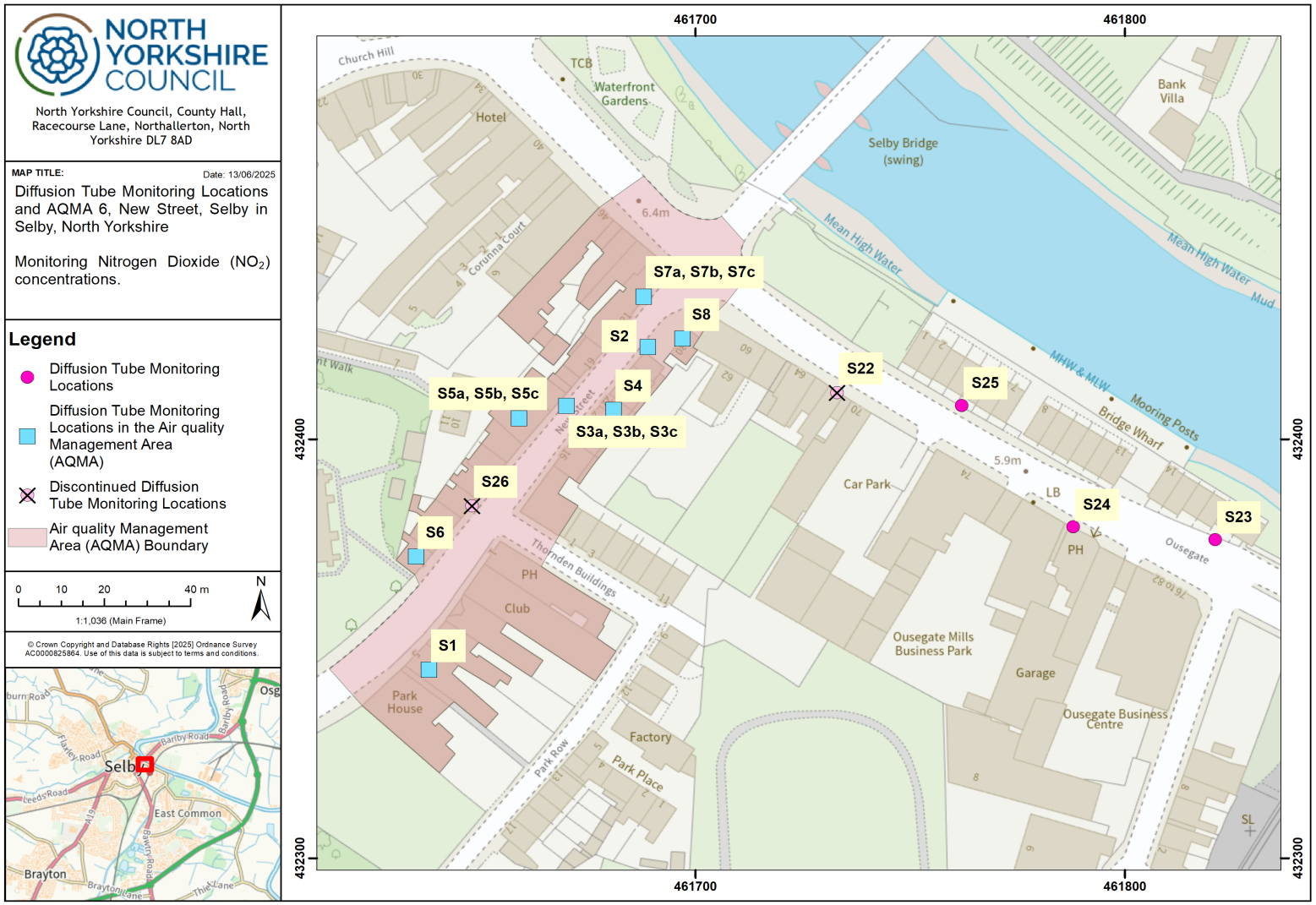
Wherever possible, monitoring locations are representative of exposure. However, where this is not possible, the $NO_2$ concentration at the nearest location relevant for exposure has been estimated using the Diffusion Tube Data Processing Tool/$NO_2$ fall-off with distance calculator available on the LAQM Support website. Where appropriate, non-automatic annual mean $NO_2$ concentrations corrected for distance are presented in Table B.1. No diffusion tube $NO_2$ monitoring locations within North Yorkshire Council required distance correction during 2024.

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

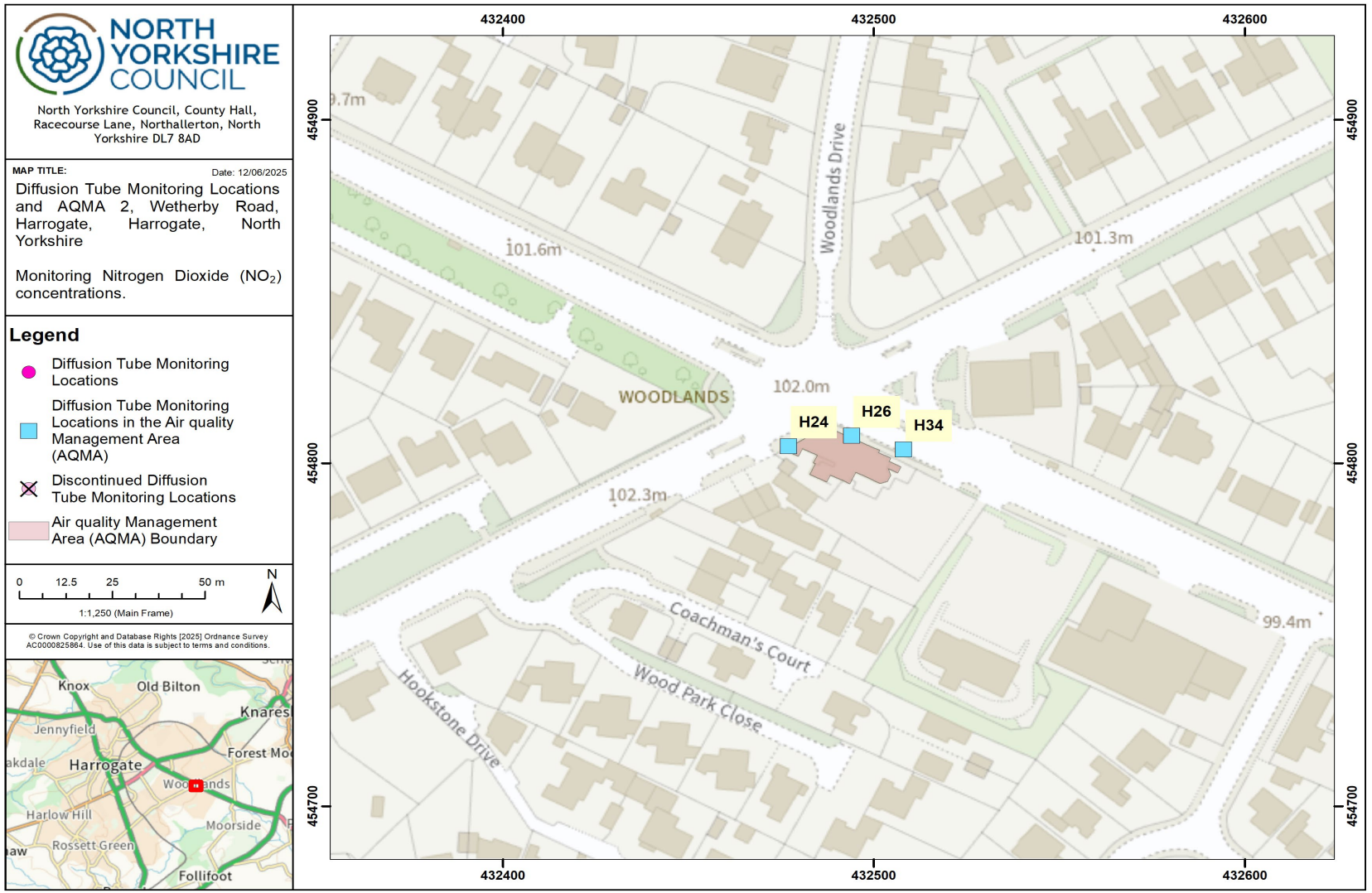
**Figure D.1 – Link to all Maps of Non-Automatic Monitoring Sites and AQMAs**

Interactive Map of Non-Automatic Monitoring Sites and AQMA's

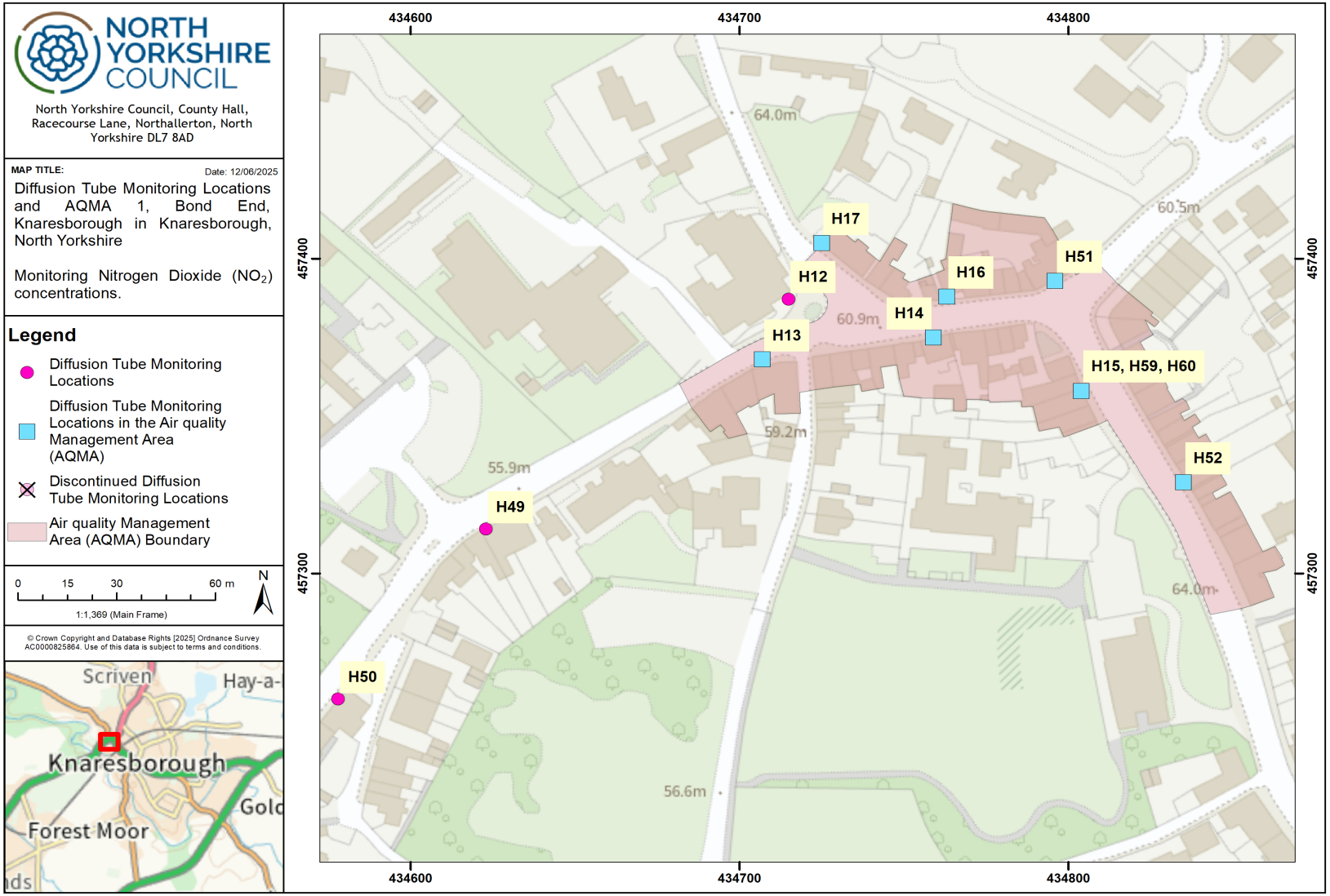
## Figure D.2 Map of AQMA 6 - Selby



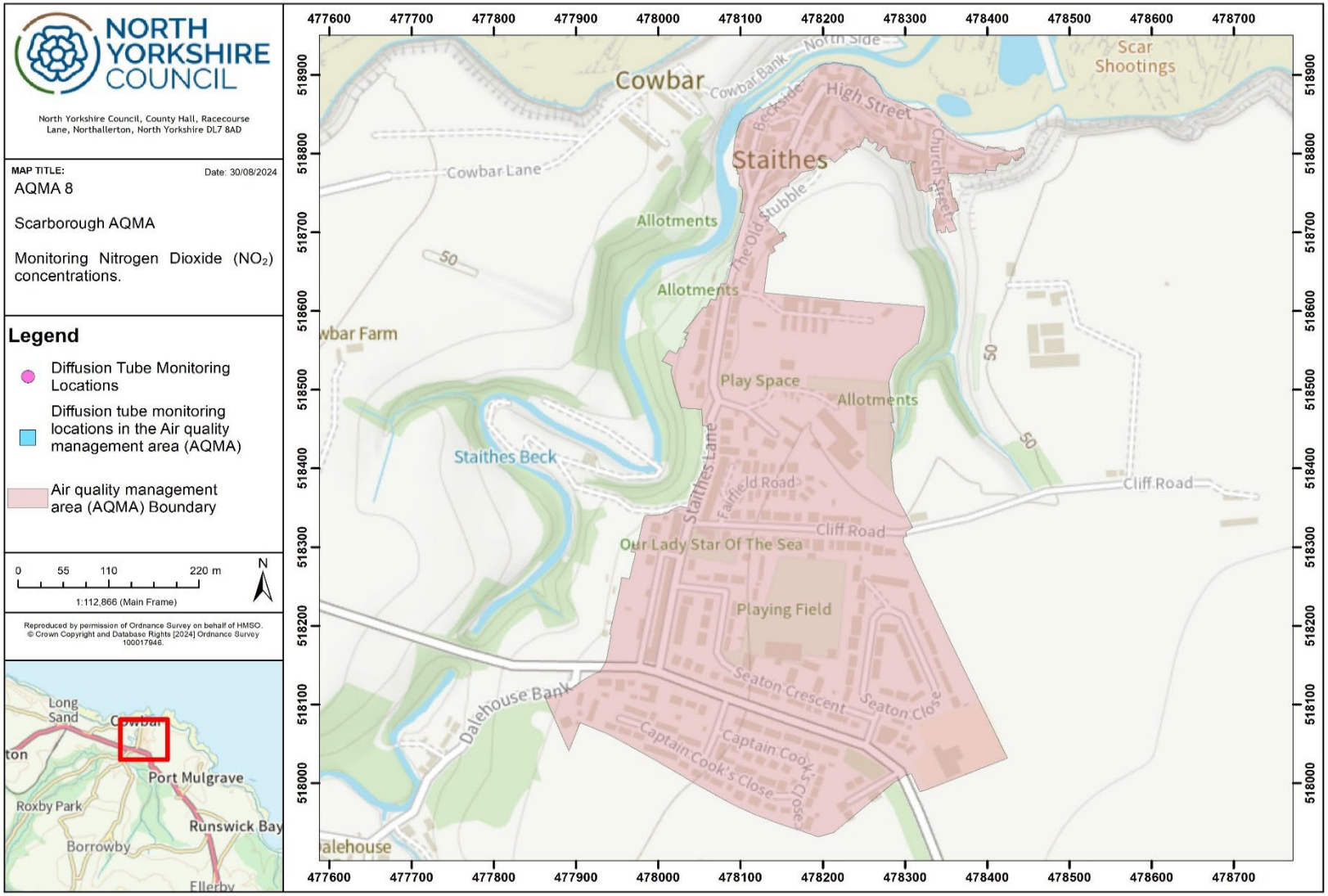
## Figure D.3 Map of AQMA 2 - Wetherby Road, Harrogate



## Figure D.4 Map of AQMA 1 – Bond End Knaresborough



## Figure D.5 Map of AQMA – The Village of Staithes Monitoring $PM_{10}$



# Appendix E: Summary of Air Quality Objectives in England

### Table E.1 – Air Quality Objectives in England[7]

| 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 |

[7] The units are in microgrammes of pollutant per cubic metre of air (µg/$m^3$).

# Glossary of Terms

| Abbreviation | Description |
|---|---|
| AQM | Air Quality Management |
| 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 |
| AQO | Air Quality Objective |
| 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 |
| EU | European Union |
| FDMS | Filter Dynamics Measurement System |
| LAQM | Local Air Quality Management |
| $NO_2$ | Nitrogen Dioxide |
| $NO_x$ | Nitrogen Oxides |
| NYC | North Yorkshire Council |
| NYMNP | North Yorks Moors National Park |
| $PM_{10}$ | 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 |
| TEA | Triethanolamine |
| TCF | Transforming Cities Fund |
| TSP | Total Suspended Particles |
| WYCA | West Yorkshire Combined Authority |
| YDNP | Yorkshire Dales National Park |
| WHO | World Health Organisation |

# 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.