Annual Progress Report (APR)

2025 Air Quality Annual Progress Report (APR) for East Renfrewshire Council

In fulfilment of Part IV of the Environment Act 1995, as amended by the Environment Act 2021

Local Air Quality Management

June 2025

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Executive Summary: Air Quality in Our Area

Air Quality in East Renfrewshire Council

Air quality in East Renfrewshire remains good and continues to show improvement. There are no major industrial or commercial sources of air pollutants within the area and road traffic is therefore the main source of local air pollution. No air quality management areas have been declared in East Renfrewshire and our monitoring of air quality across the district has found that pollutant levels have decreased over recent years.

2024 showed a decrease in pollution levels from those measured in 2023 and remain down on pre-covid levels (2018-2019). 21 of the 23 monitoring locations returned $N0_2$ levels consistent with / or lower than, the levels of NO_2 seen during 2020 when Covid lockdown procedures and controls were maximised.

Actions to Improve Air Quality

This progress report reviews air quality and actions completed in 2024.

A full programme of planned proactive work designed to improve local air quality and increase public awareness of the steps that we can all take to minimise our impact on our local environment was completed. Traditionally, air quality proactive work in East Renfrewshire has targeted work with local schools and in particular support for pupil eco-committees, work of junior road safety officers and publicity at wider school events. In 2024, as well as continuing with work in the schools, it was also decided to try and reach the wider community through partnership working between East Renfrewshire Council and East Renfrewshire Culture and leisure Trust by delivery of a citizen science project complemented with arts and literature sessions.

Home working, virtual meetings and on line training are now accepted as a means to complement the traditional work place with many companies and employers offering hybrid working and hot desking/home working as an incentive to attract and keep employees. This change in work culture is likely to have a significant impact on air quality and levels of transport generated pollutants. It will be at least in part responsible for the drop in level of NO_2 to levels seen during 2020 and covid lockdown measures. The move

away from vehicles fuelled by fossil fuels will also be playing a part in the reduction of NO_2 levels.

East Renfrewshire Council continues to arrange joint initiatives between Environmental Health, Community Safety, Education, Culture and Leisure and our Communications team to increase the profile of how air quality can be affected by vehicle idling especially around local schools, local transport hubs and taxi ranks. Core work is completed by our Community Wardens who enforce anti-idling legislation but who have also been involved in supporting Junior Road Safety officers, school Eco-committee Members and the Parent/ Teacher Groups with their pro-active work to raise the profile of localised increased pollution levels around the school gates during drop off and pick up times. A digital display screen rotates key air quality messages and lamppost / bollard collars are erected when Idling Enforcement is taking place in that area.

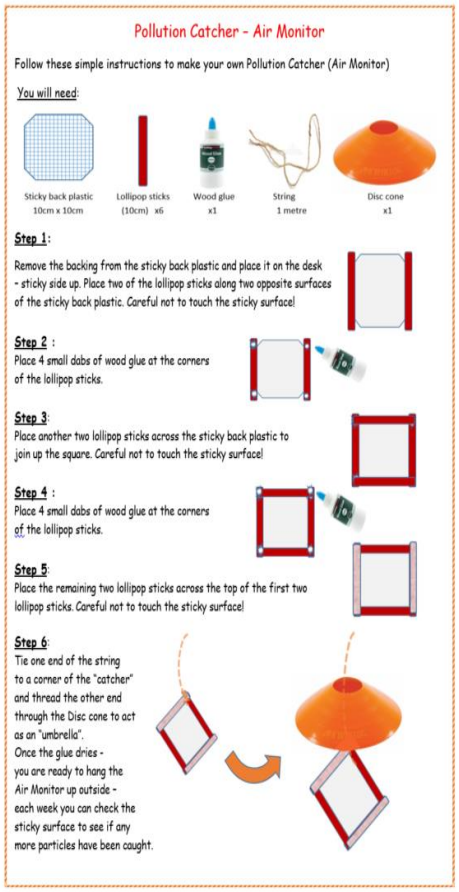
Our local libraries hosted a programme of events, activities and information awareness sessions to support the aim of improving air quality in East Renfrewshire. Interactive Storytelling, Environmental/ Nature Art workshops for adults, Animation and creative writing workshops all formed part of the events programme and was supplemented with opportunities to find out more about Air Quality and the ways we can all help to improve it.

For younger residents, a local theatre company created a bespoke performance “Smog’s up with that?!” conveying important messages to children in a fun and interactive way.

A nature writer and educator facilitated creative writing sessions for 16 years+ participants to provide skills and inspiration to write non-fiction / stories /poetry on clean air and what climate change meant to them.

Environmental Health Officers of East Renfrewshire delivered “Air Detective“ sessions at the libraries during the half term holiday. Demonstrations and experiments allowed children to explore the health of our air, the effect that poor air quality can have on our bodies and the ways in which we can improve local air quality. Finishing the session by building their own pollution catchers (figure 1).

An award winning writer and illustrator duo, delivered illustration workshops to local primary schools to create campaign posters and comic strips to help raise awareness of Car Idling. The finished designs are now on display outside four primary schools (figure 2).



Pollution Catcher - Air Monitor

Follow these simple instructions to make your own Pollution Catcher (Air Monitor)

You will need:

Sticky back plastic 10cm x 10cm | Lollipop sticks (10cm) x6 | Wood glue x1 | String 1 metre | Disc cone x1

Step 1:
Remove the backing from the sticky back plastic and place it on the desk - sticky side up. Place two of the lollipop sticks along two opposite surfaces of the sticky back plastic. Careful not to touch the sticky surface!

Step 2 :
Place 4 small dabs of wood glue at the corners of the lollipop sticks.

Step 3:
Place another two lollipop sticks across the sticky back plastic to join up the square. Careful not to touch the sticky surface!

Step 4 :
Place 4 small dabs of wood glue at the corners of the lollipop sticks.

Step 5:
Place the remaining two lollipop sticks across the top of the first two lollipop sticks. Careful not to touch the sticky surface!

Step 6:
Tie one end of the string to a corner of the "catcher" and thread the other end through the Disc cone to act as an "umbrella".
Once the glue dries - you are ready to hang the Air Monitor up outside - each week you can check the sticky surface to see if any more particles have been caught.

Figure 1: **Air Detective sessions being held at local libraries**

Figure 2: **Campaign Posters and comic strips displayed outside local Primary Schools**

The creative activities and science programme was supported by the Glasgow Science Centres interactive air quality exhibit which was installed in Mearns Library for a 4 week period (figure 3).

Figure 3: **Glasgow Science Centre Interactive Display in Mearns Library**

The Environmental Health Team also produced Air Detective Booklets packed with information, statistics, quizzes and puzzles helping readers to learn more about Air Quality in a fun, interactive and engaging manner. The booklet was suitable for 8 – 14 year olds.

Installation of 6 low cost air monitors at schools and local libraries provided real time data to support and justify the need for more work to be done to improve local air quality (figure 4).

Figure 4: **Portable Solar Powered Air Monitors located outside local libraries.**

East Renfrewshire Council have continued to support a wider anti idling awareness campaign in conjunction with 5 neighbouring Local Authorities (Figure 5.).

Figure 5: **Promotional material for regional awareness campaign (Billboards and Bus Advertising)**

Local Priorities and Challenges

Air quality in East Renfrewshire is good, local priorities are set to support delivery of the Council's new Community Planning Partnership's vision which sets out our shared hopes and aspirations between now and 2040 so that East Renfrewshire is a place where everyone can flourish, thrive and grow.

A Place to Grow - East Renfrewshire Council

The priorities for the Council is to raise the profile of our vehicle idling enforcement programme across East Renfrewshire. Our Community Safety Officers will carry out 10 hours per week of idling enforcement outside schools, leisure centres and at taxi stands / bus terminus with increased visibility and community engagement.

We will also look to provide continued support to, ERC's Education Department with air quality education for pupils and the promotion of active travel to and from school. It will also be the intention to attend community hubs and events to reiterate the pro-active measures that can be taken to improve local air quality. It will be our intention to support East Renfrewshire Culture and Leisure Trust in delivering further community art and science programmes that will focus on Air Quality and the Environment for both adults and children with creative sessions, performances and art installations in the areas and libraries not visited in 2024.

We will continue to be committed to monitoring pollutant levels and analysing them and collaborate with East Renfrewshire Council's Get to Zero Team to help address Climate Change and deliver Net Zero emissions by 2045.

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How to Get Involved

Further information on local air quality and our enforcement and education activities can be found on East Renfrewshire Council's website at http://www.eastrenfrewshire.gov.uk/air-quality

Additional information on our local air quality and monitoring results can also be found here

http://www.scottishairquality.scot/

https://www.scottishairquality.scot/latest

https://www.environment.gov.scot/our-environment/air/air-quality-projects/east-renfrewshire-schools-project/

https://eastrenfrewshire.gov.uk/article/6431/Get-to-Zero-climate-change-action-plan

Residents who are concerned about local air quality can contact Environmental Health at environmentalhealth@eastrenfrewshire.gov.uk, by phone on 0141 577 3127 or via the 'Contact Us' section of our website. https://www.eastrenfrewshire.gov.uk/contact-us

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1 Local Air Quality Management

This report provides an overview of air quality in East Renfrewshire Council 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 pursuit of the objectives. This Annual Progress Report (APR) summarises the work being undertaken by East Renfrewshire Council to improve air quality and any progress that has been made.

Table 1.1 – Summary of Air Quality Objectives in Scotland

Pollutant	Air Quality Objective Concentration	Air Quality Objective Measured as	Date to be Achieved by
Nitrogen dioxide (NO_2)	200 µg/m^3 not to be exceeded more than 18 times a year	1-hour mean	31.12.2005
Nitrogen dioxide (NO_2)	40 µg/m^3	Annual mean	31.12.2005
Particulate Matter (PM_{10})	50 µg/m^3, not to be exceeded more than 7 times a year	24-hour mean	31.12.2010
Particulate Matter (PM_{10})	18 µg/m^3	Annual mean	31.12.2010
Particulate Matter ($PM_{2.5}$)	10 µg/m^3	Annual mean	31.12.2021
Sulphur dioxide (SO_2)	350 µg/m^3, not to be exceeded more than 24 times a year	1-hour mean	31.12.2004
Sulphur dioxide (SO_2)	125 µg/m^3, not to be exceeded more than 3 times a year	24-hour mean	31.12.2004
Sulphur dioxide (SO_2)	266 µg/m^3, not to be exceeded more than 35 times a year	15-minute mean	31.12.2005
Benzene	3.25 µg/m^3	Running annual mean	31.12.2010
1,3 Butadiene	2.25 µg/m^3	Running annual mean	31.12.2003
Carbon Monoxide	10.0 mg/m^3	Running 8-Hour mean	31.12.2003

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 must prepare publish and implement an Air Quality Action Plan (AQAP) within the shortest possible time and no later than 12 months of the date of AQMA Designation Order. The AQAP must set out measures the local authority intends to put in place in pursuit of the objectives within the shortest possible time Measures should be provided with milestones and a final date for completion. The action plan itself should have a timescale for completion and for revocation of the AQMA. Where measures to reduce air pollution may require a longer timescale an action plan shall be reviewed and republished within five years of initial publication and then five-yearly thereafter.

East Renfrewshire Council currently does not have any AQMAs.

2.2 Measures to address air quality

In order to ensure that local authorities implement the measures within an action plan by the timescales stated within that plan, the Scottish Government expects authorities to submit updates on progress through the APR process. East Renfrewshire Council does not have any Air Quality Management Areas or corresponding Air Quality Action Plans however has taken forward a number of measures within the current reporting year of 2024 in pursuit of improving local air quality and continuing to ensure that the air quality levels within East Renfrewshire fall well within the national objectives. Progress and planned actions are set out in Table 2.1.

Key completed measures for this reporting year are:

- Promotion of Air Quality initiatives in the wider local community – raising public awareness on air quality impacts and methods of mitigation which can include all members of the public and communities
- Support education packages within schools to raise awareness and reduce engine idling at the school gates.

Progress on the following measures has been slower than expected due to:

- Delivery of the new 2 Km active travel route project for Aurs Road realignment and connection between Newton Mearns and Barrhead has been delayed due to unforeseen complex ground conditions and stabilisation issues during the construction phase.

East Renfrewshire Council expects the following measures to be completed over the course of the next reporting year:

- Electrification of the East Kilbride railway line
- Publication of the 10 year Local transport Strategy and Active Travel Plan.

East Renfrewshire Council has identified the following new measures since the last reporting year:

- Confirmation of the construction of the Barrhead Railway Station (Balgray) which will serve existing Barrhead South and new Springhill Developments upon completion.

Table 2.1 – Progress on Measures to Improve Air Quality

Measure No.	Measure	Category	Expected/ Actual Completion year	Organisations Involved	Measure Status	Funding Status	Key Milestones	Progress	Barriers to implementation
1	Promotion of Air Quality initiatives in the wider local community	Public information	2023- 2026	Partnership working with Leisure trust/ community groups and schools. Scottish Government Funding	2024 element complete, 2025 in process	Funding secured for 2024/2025.	Funding invested in promotional material/ speakers/theatre groups for awareness events at local libraries and community centres	Funding allocated on a yearly basis rather than 3 year programme basis.	Reduced funding for 2025
2	Public Transport Infrastructure - complete electrification of the East Kilbride Rail Line	Transport Planning and Infrastructure	December 2025	City deal	Funding secured - installation works commenced Jan 2024. Replacement of Thornliebank rail bridge complete by june 2025 - project complete Dec 2025	Project fully funded – City Deal / Scottish and UK Government	Jan 2024 - final business case approved Spring 2024 construction begins . Expected completion December 2025	On schedule	
3	Electric Vehicle Charging - Rollout of expanding public EV charging network with approximately 200 new charge points installed (in East Renfrewshire Council) over a 5 year period.	Promoting Low Emission Transport	Final Contract Award to Charge Point Operator expected Dec 26 with first phase of rollout of new sites to commence Jan 27 (and run to 2032)	Strategic Transport Service Glasgow City Region Local Authority Partners (East Dunbartonshire, East Renfrewshire, Glasgow City, Inverclyde, North Lanarkshire, Renfrewshire, South Lanarkshire and West Dunbartonshire Council)	In progress	£3.5m Transport Scotland EVCI Funding bid has been approved to Glasgow City Region. Private Sector is expected to deliver ~50% of total costs	Issue Invitation to Tender Jan 26 Contract Award Dec 26 Rollout commence Jan 27 Rollout complete 2032	Developing Invitation to Tender for commercial contract underway – to be issued Jan 26	

4	Air Quality education project in schools	Public Information	2018 - onwards	In progress	SG Grant Funded , Education Department	20 Schools involved reaching over 7000 children since 2018	Over 2024/25 school year, 3 schools have engaged and completed the programme of initial engagement, school assemblies and banner competition	Accessing education programmes to fit in with existing curriculum	Reduced funding for 2025
5	Vehicle Idling Enforcement	Traffic Management	ongoing	In progress	SG Grant funded Community Safety partnership	In 2024 Level of enforcement continued at 10 Hours per week – supply materials for public awareness	Ongoing		Reduced funding for 2025
6	Council Fleet Decarbonisation Complete assessment plan for all services to transition car /vans to EVs	Promoting Low Emission Transport	Mar '26	Get to Zero	In progress	Fully funded	Milestones are being revised following review by project team	Data gathering has commenced and service profiled have been established. Next stage will be to develop the implementation plans and charging management plans for all fleet-user services with cars/vans. The transition to EVs is not likely to happen until 2027/28 at the earliest.	

7	Public Transport Infrastructure - complete construction of Barrhead South Rail Station (Balgray)	Transport Planning and Infrastructure	Autumn 2026	City deal	Funding secured - construction due to start Summer 2025	Project fully funded- city Deal / Scottish and UK Government	Sept 2024- final business case approved. Summer 2025 construction begins . Expected completion Autumn 2026		
8	Active Travel Infrastructure delivery of new 2Km active travel route project for Aurs Road realignment	Promoting travel alternatives	Dec 24	Glasgow City Region	In progress (delayed)	Partner funding Glasgow City Region Deal (East Ren Council/Uk & Scottish Government) Transport Scotland (Sustrans and developers contributions	Project commenced Jan 2024 expected completion date (delayed until Summer 2026)	Project delayed due to complex ground conditions and stability challenges	
9	Local Transport Strategy and Active Travel Plan- Publish a local Transport Strategy , outlining the priorities action for the next 10 years	Alternative to Private Vehicle use	Dec 25	Strategic Transport	In progress	Partially Funded	Cabinet approval to consult on local transport strategy – 14 Aug to 18 September 2025	Draft Local Transport Strategy(and supporting assessments) complete, awaiting Council approval Scoping for revised Active travel Plan commenced.	Local Transport Strategy provides a policy framework for transport related investment and activities. Necessary delivery plans to be confirmed, timescales unknown.

3 Air Quality Monitoring Data and Comparison with Air Quality Objectives

3.1 Summary of Monitoring Undertaken

3.1.1 Automatic Monitoring Sites

East Renfrewshire Council does not undertake any automatic (continuous) monitoring within the authority's area.

3.1.2 Non-Automatic Monitoring Sites

East Renfrewshire Council undertook non- automatic (passive) monitoring of NO_2 at 23 sites during 2024. Table A.1 in **Appendix A** shows the details of the sites.

Maps showing the location of the monitoring sites are provided in **Appendix A.** Further details on Quality Assurance/Quality Control (QA/QC) and bias adjustment for the diffusion tubes are included in **Appendix C.**

3.1.3 Other Monitoring Activities

East Renfrewshire Council has access to three low cost Air Quality monitors that provide information to support our proactive work. We are able to locate and rotate the monitors at local school gates, libraries and areas where Air Quality promotional work is taking place. Monitoring results can be studied real time and results summarised to support the work being completed by school pupils, library staff etc.

The results displayed in figure: 6 (below) shows how effective interpretation of the results could be circulated around participating schools to support the Eco and Junior Road Safety Committees tackling engine idling and unsafe parking around the school gates.

Whilst the readings taken from our low cost air monitors is not ratified- the visual effect of Nitrogen Dioxide peaks appearing at school gates during drop off times is very visual and distinct confirming and illustrating that a problem does exist.

Figure 6 Effective interpretation and use of results taken from low cost air monitors

3.2 Individual Pollutants

The air quality monitoring results presented in this section are, where relevant, adjusted for annualisation and bias. Further details on adjustments are provided in **Appendix C**.

3.2.1 Nitrogen Dioxide (NO_2)

East Renfrewshire Council currently monitors nitrogen dioxide at 23 locations, using diffusion tubes. During 2024, nitrogen dioxide levels at all 23 sites were within the annual mean objective. **There is therefore no need to proceed to any more detailed monitoring or assessment of nitrogen dioxide levels for any location within East Renfrewshire.**

Overall trend in NO2 levels over the last five years is shown in **Figure 7** below. If a simplistic view is taken then it could be said that 2021 NO_2 levels had increased from the very low levels witnessed during 2020 where full covid restrictions and national lockdowns were being adhered to. Levels continued to fall in 2022/23 and now in 2024 sit generally below the levels witnessed in 2020 where covid restrictions had a significant positive improvement in air quality.

Table A.2 in **Appendix A** compares the adjusted monitored NO_2 annual mean concentrations for the past five years with the air quality objective of 40 µg/m^3 at non automatic monitoring sites.

For diffusion tubes, the full 2024 dataset of monthly mean values is provided in **Appendix B**.

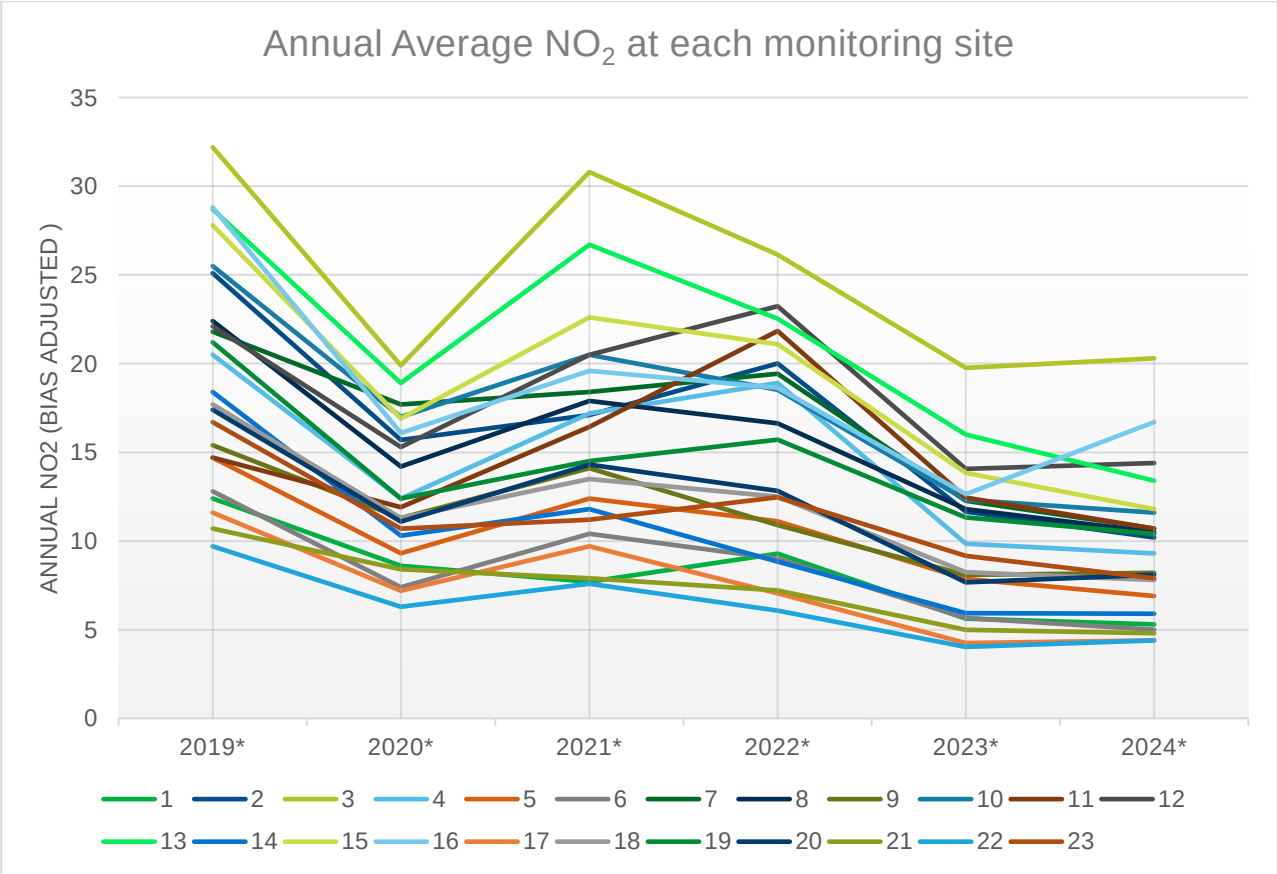


Figure 7: Nitrogen Dioxide diffusion tube results at each monitoring site 2019-2024

3.2.2 Particulate Matter (PM_{10})

PM_{10} monitoring was undertaken at Sheddens Roundabout until mid-2014. Data results up until that time had indicated that there was no likelihood of failing to meet the hourly or annual mean objective for PM_{10}.

3.2.3 Particulate Matter ($PM_{2.5}$)

East Renfrewshire Council does not monitor $PM_{2.5}$ and currently has no plans to do so.

3.2.4 Sulphur Dioxide (SO_2)

East Renfrewshire Council does not monitor SO_2 as there are no significant sources of SO_2 in the area.

3.2.5 Carbon Monoxide, Lead and 1,3-Butadiene

East Renfrewshire Council does not monitor any of these pollutants as there are no significant sources of these pollutants within our area.

4 New Local Developments

There are significant new local residential developments currently either being considered under the development management system or are under construction around the south of Barrhead and Newton Mearns. As part of the development management process, air quality assessments are required for any significant development. These may be stand-alone assessments or may form a chapter of the wider Environmental Impact Assessment for the development. The conclusions of each of these air quality assessments has been reviewed by the Environmental Health Service; as background pollutant levels across the district are generally low, none of these developments has been considered to create a risk of exceedance of air quality objectives. Any of these air quality assessments can be viewed via East Renfrewshire Council's Online Planning Portal at:

https://www.eastrenfrewshire.gov.uk/planning-and-building-standards

4.1 Road Traffic Sources

2024 has not seen any new:

• Narrow congested streets with residential properties close to the kerb.

• Busy streets where people may spend one hour or more close to traffic.

• Roads with a high flow of buses and/or HGVs.

• Significant Junctions.

• New roads constructed or proposed

• Roads with significantly changed traffic flows.

• Bus or coach stations

4.2 Other Transport Sources

There are no airports or shipping ports within East Renfrewshire, nor are there any:

- Locations where diesel or steam trains are regularly stationary for periods of 15 minutes or more, with potential for relevant exposure within 15m.

- Locations with a large number of movements of diesel locomotives, and potential long-term relevant exposure within 30m.

Work commenced in January 2024 on the East Kilbride Enhancement project to electrify the Glasgow to East Kilbride rail line which serves much of East Renfrewshire. Upon its completion in 2025, the project will see the introduction of electric trains serving Thronliebank , Giffnock, Clarkston and Busby railway stations. Additional information can be found on the Scotlands's Railway website https://scotlandsrailway.com/projects/east-kilbride-enhancements

4.3 Industrial Sources

There are no new:

- **Industrial installations:** new or proposed installations for which an air quality assessment has been carried out.

- **Industrial installations:** existing installations where emissions have increased substantially or new relevant exposure has been introduced.

- **Industrial installations:** new or significantly changed installations with no previous air quality assessment.

- Major fuel storage depots storing petrol.

- Petrol stations.

- Poultry farms.

The Scottish Environmental Protection Agency have confirmed that they have not received any applications for new , or significant variation to existing PPC part A and B operations or Waste Management Licences within East Renfrewshire Council area.

4.4 Commercial and Domestic Sources

There are no new:

- Biomass combustion plant – individual installations.
- Areas where the combined impact of several biomass combustion sources may be relevant.
- Areas where domestic solid fuel burning may be relevant.
- Combined Heat and Power (CHP) plant.

4.5 New Developments with Fugitive or Uncontrolled Sources

There have been no new applications for:

• Landfill sites.

• Quarries.

• Unmade haulage roads on industrial sites.

• Waste transfer stations, etc.

• Other potential sources of fugitive particulate matter emissions.

5 Planning Applications

There are significant areas of development around the south of Barrhead and Newton Mearns. These developments predominantly compromise residential development, together with associated community facilities e.g. schools. There is also approval for residential developments in areas to the north east of Barrhead and west of Newton Mearns regenerating industrial/commercial areas that have been lying vacant for a number of years.

Wherever such significant development is being considered, the Environmental Health Service recommends to the Development Management team that an air quality assessment is required. Often the developer's appointed consultant will contact the EH service to discuss the requirement for an assessment, obtain any available local monitoring data and agree a suitable methodology for the assessment.

For the smaller housing developments, the assessment usually comprises a stand- alone report. For larger scale developments, air quality is normally included as a chapter of the full Environmental Impact Assessment for the site. The assessment will cover both the construction and operational phases of the development. East Renfrewshire Council encourages developers to consider the cumulative effect of their own development and other nearby developments which are already the subject of a planning application or under construction.

6 Conclusions and Proposed Actions

6.1 Conclusions from New Monitoring Data

There were no exceedances of Scottish objectives identified within East Renfrewshire in 2024. The monitoring data shows a continued downward trend in NOx levels over the last 5 years.

6.2 Conclusions relating to New Local Developments

There are areas of significant development around the south of the existing suburbs of Newton Mearns and Barrhead and a number of regeneration projects to bring vacant commercial and industrial land to the north of Barrhead and west of Newton Mearns back into use as residential areas. Much of this development is already under construction, although some is still being processed through the development management system. For all planning applications for significant development, air quality assessments are required. These assessments will include review of the impact on local air quality during any demolition works, construction works or the completed and operational phase of the development. None of these assessments have considered that any of the development present a risk of national air quality objectives being exceeded, primarily as a result of the comparatively low background levels of pollutants.

This notwithstanding, Environmental Health has liaised with the Development Management section and with other services across East Renfrewshire Council to work towards securing some mitigation of any impacts on local air quality. East Renfrewshire Council seeks to encourage active travel within the context of place-making for significant new developments.

As new developments are completed and occupied, Environmental Health will review East Renfrewshire Council’s air quality monitoring network to ensure that it continues to be appropriate in both scale and location.

6.3 Proposed Actions

As there are no exceedances of national or Scottish air quality objectives within East Renfrewshire, there is no need to progress to any further formal assessments before the next Annual Progress Report (due June 2026).

Although there is no requirement to proceed through any additional formal stages of the Local Air Quality Management process, East Renfrewshire Council is committed to improving local air quality, as part of the council's strategic outcome agreement to ensure that "*East Renfrewshire is a thriving, attractive and sustainable place for businesses and residents*" and as a part of ERC Environment Department's wider 'Prevention' agenda. East Renfrewshire Council is also cognisant of the key role of local authorities in delivery of the Scottish Government "*Cleaner Air for Scotland 2*" strategy.

We will therefore be continuing to work throughout 2025/26 on air quality education projects within local schools and at community events, on vehicle idling enforcement and on promotion of the anti–idling message. East Renfrewshire Council is also committed to providing and promoting opportunities for active travel and will continue to deliver on this throughout 2025/26. East Renfrewshire Council will also support East Renfrewshire Culture and Leisure Trust in delivery of a community programme that will focus on Air Quality and the Environment across the remaining libraries which were not included in the 2024/2025 Citizen Science and Community Network Programme.

Environmental Health will continue to liaise with colleagues in Development Management and Development Plans to ensure that air quality impacts from new developments are appropriately assessed and that mitigation measures are included wherever necessary.

Work and improvement on the rail network serving existing and new residents of East Renfrewshire will benefit the wider air quality and transport network with electrification of the East Kilbride Line and construction of the new Barrhead South (Balgray) Rail station.

East Renfrewshire Council will demonstrate our on-going commitment to improving local air quality throughout 2025/26, through developing partnerships between ERC services and with external organisations. This integrated partnership approach will help us to deliver beyond air quality compliance, to contribute to wider environmental and health benefits for our residents.

Appendix A: Monitoring Results

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

Site ID	Site Name	Site Type	X OS Grid Ref	Y OS Grid Ref	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)
1	Huntly Drive, Giffnock	Roadside	256633	658900	NO2	NO	2.2	0.2	No	2.0
2	Eastwoodmains Road	Kerbside	255950	658269	NO2	NO	5.0	2.5	No	2.0
3	Clarkston Toll	Roadside	257278	657569	NO2	NO	5.0	0.2	No	2.0
4	Sheddens Roundabout	Kerbside	257437	657092	NO2	NO	2.0	3.0	No	2.0
5	Riverside Terrace, Busby	Kerbside	257889	656601	NO2	NO	2.5	2.5	No	2.0
6	Main Street, Neilston	Kerbside	247958	657299	NO2	NO	1.0	2.5	No	2.0
7	Kelburn St, Neilston Rd, Barrhead	Kerbside	249401	658377	NO2	NO	2.0	2.5	No	2.0

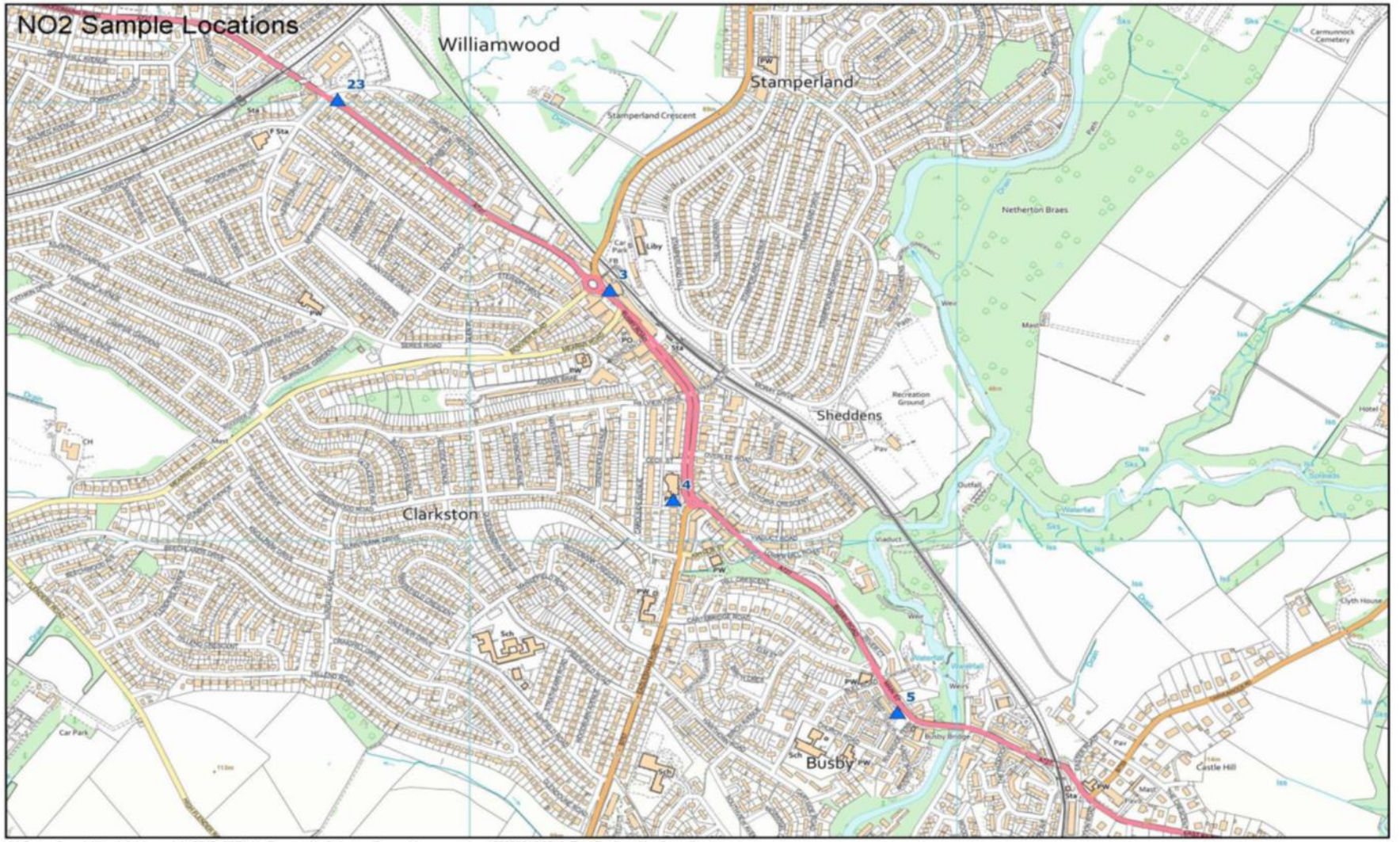
Site ID	Site Name	Site Type	X OS Grid Ref	Y OS Grid Ref	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) [1]	Distance to kerb of nearest road (m) [2]	Tube co-located with a Continuous Analyser?	Tube Height (m)
8	Cross Arthurlie St, Barrhead	Kerbside	249787	659237	NO2	NO	1.0	2.0	No	2.0
9	Darnley Rd, Barrhead	Kerbside	250845	659308	NO2	NO	5.0	2.5	No	2.0
10	Main St, Thornliebank	Kerbside	254759	659474	NO2	NO	5.0	2.5	No	2.0
11	Main St, Barrhead, North	Roadside	250651	659238	NO2	NO	5.0	0.5	No	2.0
12	Main St, Barrhead, South (Allans Corner)	Roadside	249845	658779	NO2	NO	15.0	0.5	No	2.0
13	Lochlibo Rd at W. Arthurlie	Kerbside	249344	658392	NO2	NO	7.0	4.0	No	2.0
14	Eastwoodmains Rd, Mains Ave	Kerbside	255709	658109	NO2	NO	5.0	2.0	No	2.0
15	Rouken Glen Rd	Kerbside	254777	658770	NO2	NO	5.0	2.0	No	2.0
16	195 Fenwick Road	Kerbside	256279	659209	NO2	NO	2.0	0.5	No	2.0

Site ID	Site Name	Site Type	X OS Grid Ref	Y OS Grid Ref	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)
17	Mearnskirk Nursing Home	Roadside	253798	655385	NO2	NO	2.5	1.0	No	2.0
18	Brodick Place, Newton Mearns	Roadside	252407	655475	NO2	NO	1.0	0.2	No	2.0
19	Burnfield Road	Roadside	256218	659414	NO2	NO	1.0	1.5	No	2.0
20	Braidholm Rd, Giffnock	Roadside	256381	659380	NO2	NO	4.5	2.0	No	2.0
21	Mearns Castle High School Sports	Kerbside	255418	655265	NO2	NO	10.0	2.0	No	2.0
22	Mearns Castle High School Entrance	Kerbside	255405	655274	NO2	NO	5.0	0.5	No	2.0
23	Eastwood Health Centre Drumby Crescent	Kerbside	256728	658007	NO2	NO	5.0	3.0	No	2.0

Notes:

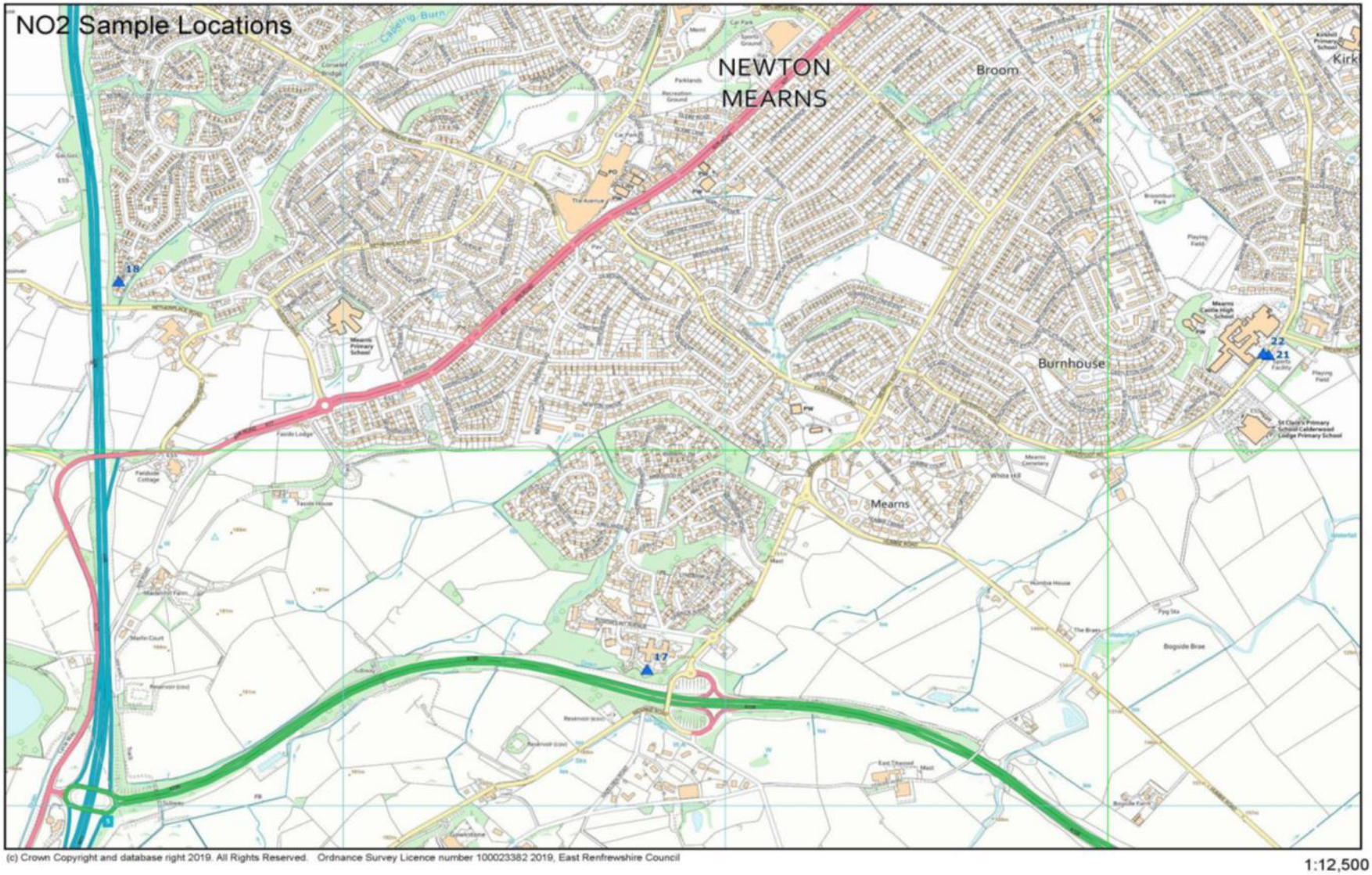
(1) 0m if the monitoring site is at a location of exposure (e.g. installed on/adjacent to the façade of a residential property).

(2) N/A if not applicable.

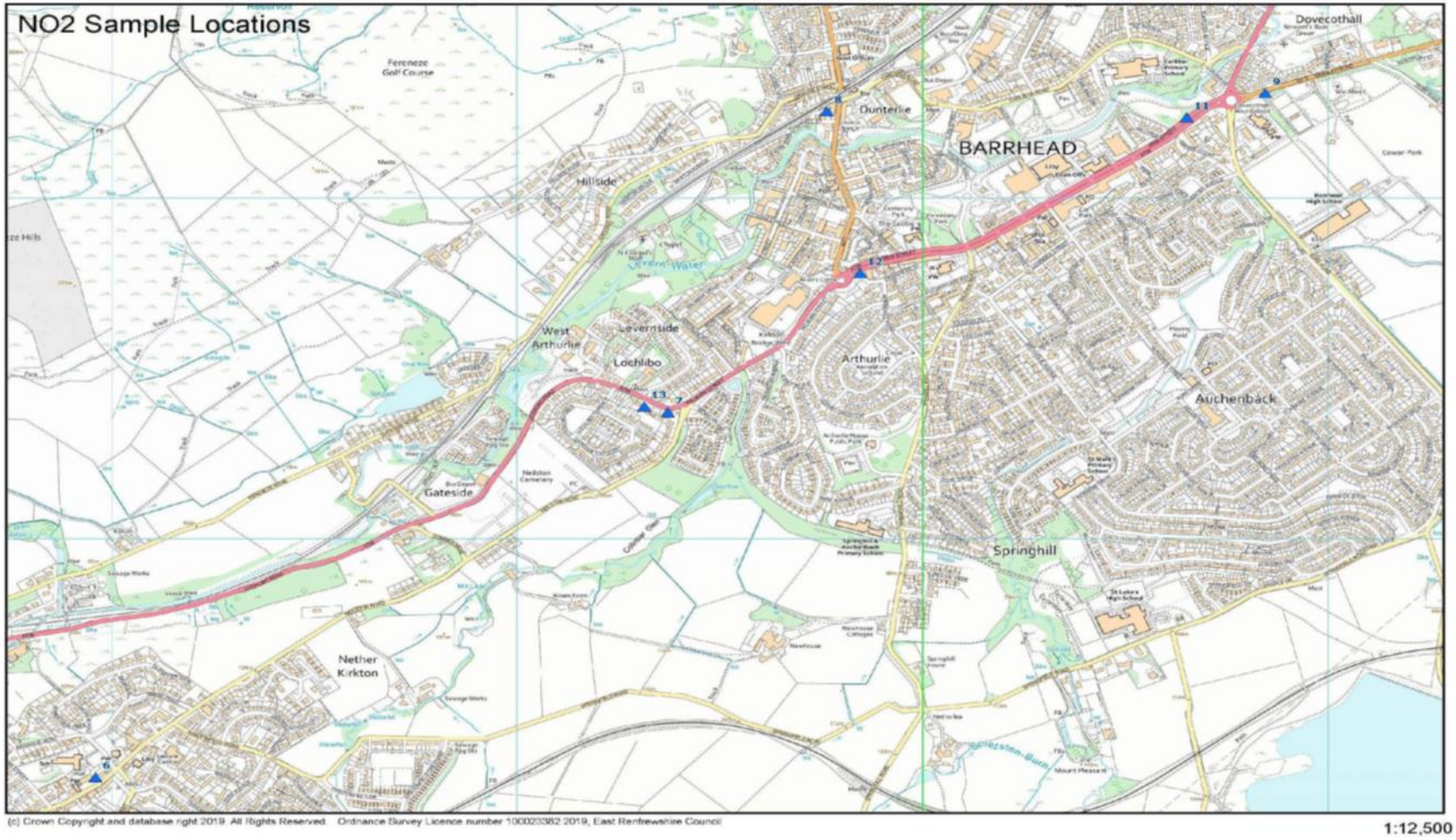


CLARKSTON AND BUSBY

THORNLIEBANK AND GIFFNOCK



NEWTON MEARNS (South)



BARRHEAD AND NEILSTON

Table A.2 – Annual Mean NO_2 Monitoring Results: Non-Automatic Monitoring (µg/m^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
1	256633	658900	Roadside	92.5	92.5	8.6	7.7	9.3	5.6	5.3
2	255950	658269	Kerbside	90.6	90.6	15.7	17.1	20.0	11.7	10.2
3	257278	657569	Roadside	100.0	100.0	19.9	30.8	26.1	19.8	20.3
4	257437	657092	Kerbside	100.0	100.0	12.4	17.2	18.9	9.9	9.3
5	257889	656601	Kerbside	100.0	100.0	9.3	12.4	11.1	7.9	6.9
6	247958	657299	Kerbside	100.0	100.0	7.4	10.4	9.0	5.7	5.0
7	249401	658377	Kerbside	100.0	100.0	17.7	18.4	19.4	12.3	10.7
8	249787	659237	Kerbside	90.6	90.6	14.2	17.9	16.6	11.8	10.5
9	250845	659308	Kerbside	100.0	100.0	11.3	14.1	10.9	8.1	8.2
10	254759	659474	Kerbside	100.0	100.0	17.0	20.5	18.5	12.3	11.6

Diffusion Tube ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid Data Capture for Monitoring Period (%) [1]	Valid Data Capture 2024 (%) [2]	2020	2021	2022	2023	2024
11	250651	659238	Roadside	100.0	100.0	11.9	16.4	21.8	12.4	10.7
12	249845	658779	Roadside	100.0	100.0	15.3	20.5	23.2	14.1	14.4
13	249344	658392	Kerbside	100.0	100.0	18.9	26.7	22.5	16.0	13.4
14	255709	658109	Kerbside	100.0	100.0	10.3	11.8	8.8	5.9	5.9
15	254777	658770	Kerbside	100.0	100.0	16.9	22.6	21.1	13.8	11.8
16	256279	659209	Kerbside	90.6	90.6	16.1	19.6	18.6	12.6	16.7
17	253798	655385	Roadside	90.6	90.6	7.2	9.7	7.1	4.2	4.4
18	252407	655475	Roadside	100.0	100.0	11.3	13.5	12.5	8.2	7.8
19	256218	659414	Roadside	100.0	100.0	12.4	14.5	15.7	11.3	10.4
20	256381	659380	Roadside	100.0	100.0	11.1	14.3	12.8	7.7	8.1
21	255418	655265	Kerbside	100.0	100.0	8.4	7.9	7.2	5.0	4.8

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
22	255405	655274	Kerbside	100.0	100.0	6.3	7.6	6.1	4.0	4.4
23	256728	658007	Kerbside	100.0	100.0	10.7	11.2	12.5	9.2	7.9

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:

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

NO_2 annual means exceeding 60 µg/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.

Appendix B: Full Monthly Diffusion Tube Results for 2024

Table B.1 – NO_2 2024 Monthly Diffusion Tube Results ($\mu g/m^3$)

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 ($\mu g/m^3$)	Annual Mean: Annualised and Bias Adjusted ($\mu g/m^3$) (0.82)	Comment
1	256633	658900	8.6	5.2	5.8	5.1	5.6	2.1		4.9	4.4	9.5	7.1	12.5	6.4	5.3	
2	255950	658269	18.2		13.2	5.0	9.0	5.9	11.9	9.6	7.4	17.3	2.1	37.2	12.4	10.2	
3	257278	657569	30.7	18.4	33.4	14.8	17.8	17.6	25.9	20.7	23.5	29.8	35.3	28.9	24.7	20.3	
4	257437	657092	11.8	10.5	13.8	5.2	8.3	2.1	10.1	7.8	14.1	16.2	17.7	18.3	11.3	9.3	
5	257889	656601	7.9	9.8	14.0	4.2	6.8	2.6	6.2	5.0	8.7	12.0	12.5	11.3	8.4	6.9	
6	247958	657299	8.1	8.7	8.6	2.0	4.9	2.1	4.6	2.5	5.9	9.7	7.6	8.3	6.1	5.0	
7	249401	658377	14.8	10.0	14.7	6.3	7.7	9.2	13.0	12.1	11.7	14.4	23.5	19.9	13.1	10.7	
8	249787	659237	10.7	10.4	17.3	4.6		15.9	10.6	9.5	14.8	15.4	16.1	15.6	12.8	10.5	
9	250845	659308	9.1	11.9	14.3	4.7	6.8	4.5	9.6	6.9	11.2	13.3	15.5	11.7	10.0	8.2	
10	254759	659474	15.1	13.2	17.0	5.1	7.4	9.1	12.0	14.2	11.9	18.0	26.0	21.3	14.2	11.6	

DT ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Mean: Raw Data (µg/m^3)	Annual Mean: Annualised and Bias Adjusted (µg/m^3) (0.82)	Comment
11	250651	659238	11.2	10.9	12.2	5.6	1.6	14.5	16.9	10.5	12.9	20.9	19.2	19.9	13.0	10.7	
12	249845	658779	16.2	13.7	19.8	8.1	14.6	30.5	12.3	16.3	19.4	17.2	28.1	14.9	17.6	14.4	
13	249344	658392	15.7	14.3	18.1	9.3	15.7	9.5	16.4	14.9	25.6	20.6	17.2	18.5	16.3	13.4	
14	255709	658109	15.1	8.0	10.1	2.4	5.7	2.3	6.1	5.1	3.8	9.6	9.1	9.3	7.2	5.9	
15	254777	658770	17.2	12.7	15.3	7.6	9.6	6.4	14.3	12.7	14.2	20.1	20.4	22.7	14.4	11.8	
16	256279	659209	26.0	10.0	18.5	8.3		11.0	44.6	12.5	22.3	20.0	29.2	21.9	20.4	16.7	
17	253798	655385	8.2	4.0	6.7	2.0		1.3	4.9	4.3	6.5	8.2	6.8	6.7	5.4	4.4	
18	252407	655475	9.7	8.3	10.1	2.0	6.7	5.6	10.6	10.7	7.8	13.3	16.8	12.5	9.5	7.8	
19	256218	659414	12.4	9.7	18.4	6.9	11.1	5.6	9.6	9.9	14.5	14.3	22.2	17.9	12.7	10.4	
20	256381	659380	12.4	8.2	10.7	4.7	6.5	2.1	8.5	7.0	10.6	12.1	19.0	17.2	9.9	8.1	
21	255418	655265	4.9	5.8	7.4	3.2	3.3	2.4	4.6	5.6	7.8	7.6	10.3	7.8	5.9	4.8	
22	255405	655274	6.8	4.2	7.8	2.0	2.5	2.1	11.6	3.2	6.3	6.2	4.7	6.5	5.3	4.4	

DT ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Mean: Raw Data (µg/m^3)	Annual Mean: Annualised and Bias Adjusted (µg/m^3) (0.82)	Comment
23	256728	658007	11.5	9.1	13.3	6.2	6.4	2.9	6.0	5.3	14.3	13.9	15.3	12.0	9.7	7.9	

☒ **All erroneous data has been removed from the NO_2 diffusion tube dataset presented in Table B.1**.

☒ **National bias adjustment factor used**

☒ **East Renfrewshire 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 40 µg/m^3 are shown in **bold**.

NO_2 annual means exceeding 60 µg/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 East Renfrewshire Council During 2024

East Renfrewshire Council has not identified any new sources relating to air quality within the reporting year of 2024.

Additional Air Quality Works Undertaken by East Renfrewshire Council During 2024

East Renfrewshire Council has not completed any additional works within the reporting year of 2024

QA/QC of Diffusion Tube Monitoring

Diffusion Tube Annualisation

All diffusion tube monitoring locations within East Renfrewshire Council recorded data capture of 75% therefore it was not required to annualise any monitoring data.

Diffusion Tube Bias Adjustment Factors

East Renfrewshire Council have applied a national bias adjustment factor of 0.82 to the 2024 monitoring data. A summary of bias adjustment factors used by East Renfrewshire Council over the past five years is presented in Table C.1.

The diffusion tubes are supplied and analysed by Glasgow Scientific Services (GSS) and are prepared using the 20% TEA in water method and in accordance with the procedures set out in the practical guidance. East Renfrewshire has not carried out any co-location studies itself, although co-location studies are available for GSS. The Department for Environment and Rural Affairs (DEFRA) reports that in co-location testing in 2024, GSS demonstrated 'good' precision in 1 assessment (see https://laqm.defra.gov.uk/air-quality/air-quality-assessment/national-bias/)

DEFRA further reports that the 202 bias adjustment factor for GSS is 0.82 (see Spreadsheet 04/25) This bias adjustment factor has therefore been applied to the annual average diffusion tube results reported above. Laboratory performance in analysing diffusion tubes is subject to quality assurance/control under the AIR-PT scheme operated by LGC and supported by the Health and Safety Laboratory.

Table C.1 – Bias Adjustment Factor

Year	Local or National	If National, Version of National Spreadsheet	Adjustment Factor
2024	National	04/25	0.82
2023	National	03/24	0.74
2022	National	03/23	1.05
2021	National	06/22	1.11
2020	National	06/21	0.95

NO_2 Fall-off with Distance from the Road

No diffusion tube NO_2 monitoring locations within East Renfrewshire required distance correction during 2023.

Glossary of Terms

Abbreviation	Description
AQAP	Air Quality Action Plan - A detailed description of measures, outcomes, achievement dates and implementation methods, showing how the LA intends to achieve air quality limit values'
AQMA	Air Quality Management Area – An area where air pollutant concentrations exceed / are likely to exceed the relevant air quality objectives. AQMAs are declared for specific pollutants and objectives
APR	Annual Progress Report
AURN	Automatic Urban and Rural Network (UK air quality monitoring network)
CAFS	Clean Air For Scotland
Defra	Department for Environment, Food and Rural Affairs
DMRB	Design Manual for Roads and Bridges – Air quality screening tool produced by Highways England
DT	Diffusion Tube
ERC	East Renfrewshire Council
ESS	Environmental sustainability Strategy
EV	Electric Vehicle
FDMS	Filter Dynamics Measurement System
GHG	Green house Gasses
GTZ	Get to Zero
GTZAP	Get To Zero Action Plan
ICE	Internal Combustion Engine
LAQM	Local Air Quality Management
NO_2	Nitrogen Dioxide
NO_X	Nitrogen Oxides
PM_{10}	Airborne particulate matter with an aerodynamic diameter of 10µm (micrometres or microns) or less

$PM_{2.5}$	Airborne particulate matter with an aerodynamic diameter of 2.5µm or less
QA/QC	Quality Assurance and Quality Control
SEPA	Scottish Environmental Protection Agency
SO_2	Sulphur Dioxide