



SOUTHWARK AIR QUALITY ACTION PLAN

2023 – 2027

If you have any comments on this AQAP please send them to Southwark Environmental Protection at:

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SUMMARY

This Air Quality Action Plan (AQAP) has been produced as part of our duty under London Local Air Quality Management. It outlines the action we will take to improve air quality in Southwark between 2023 and 2027.

This action plan replaces the previous action plan which ran from 2017 to 2022. Successful projects delivered through the last action plan include:

- Expansion of Southwark's Air Quality Monitoring Network.
- Reduced the council's pension investment in fossil fuels.
- Production of Air Quality Planning Technical guidance document.
- Improved cycling and walking provisions in the Borough.
- Introduction of Low Transport Neighbourhoods in the Borough.
- Introduction of electric pool vehicles.
- Production of an Air Quality Joint Strategy Needs Assessment.
- The Southwark fleet procurement policy worked on the following hierarchy: - is the vehicle necessary, if so, the vehicle should be electrically powered. If an electric option is not available, the vehicle should be petrol fuelled. Diesel is only permitted when it is the only viable option.
- 2 Primary Schools and 3 nurseries in the Borough received a Mayor's Air Quality audit.
- Produced Air Quality / Health Information Sheets
- Completed or taking part in the following Mayor's Air Quality Fund projects, details can be found on [Southwark's website](#).
 - Cleaner Air for Schools Projects Phase 1 and 2
 - Anti – idling project at Tower Bridge
 - Anti – idling project: 'Idling Action London' in conjunction London Borough of Camden / City of London
 - Air quality issues awareness raising
 - Construction site dust suppressant trial
 - Trial of Nitrogen Dioxide reducing reactive surface coatings on new developments.
 - Regulation of construction site Non-Road Mobile Machinery in conjunction with London Borough of Merton
- Emission based vehicle parking charges for on street parking and permits.
- Worked with TfL to reduce emissions from Rotherhithe Tunnel.
- GLA Air Quality Focus Area air quality projects.

Air pollution causes adverse health impacts, and contributes to the onset of respiratory, heart disease and cancer. Air pollution particularly affects the most vulnerable in society: children and older people,

and those with heart and lung conditions. Air quality is an equalities issue, because areas with poor air quality are often also the less affluent areas.^{1 2}

[Southwark's Air Quality Joint Strategy Needs Assessment](#) (JSNA) on page 28 and 29 shows the GLA Air Quality Focus Areas in relationship to the number of children (0 – 15 years), number of older people aged 65+ and the percentage of deprived communities and ethnic minority. Higher percentages of deprived communities and ethnic minority are in, or adjacent to, air quality focus areas.

The annual health costs to society of the impacts of air pollution in the UK is estimated to be roughly £15 billion³. Southwark is committed to reducing the exposure to poor air quality of its residents and visitors, to improve health.

We have developed actions under seven broad topics:

- **Monitoring and other core statutory duties:** Southwark has expanded its continuous monitoring network to six sites. This improves information about changes in air quality over time. The new equipment allows the Council to monitor more of the pollutants in the air. The Council has made the information publicly available.
- **Emissions from developments and buildings:** emissions from buildings account for about 21% of the NO_x emissions across London, so are an important source of NO₂. Southwark seeks to reduce emissions from fuel combustion. This aim aligns with the Southwark Carbon strategy.
- **Public health and awareness raising:** Increasing awareness can drive behavioural change that lowers emissions, and informs the public how to reduce their exposure to air pollution;
- **Delivery servicing and freight:** Goods and service vehicles are usually diesel powered and have high NO₂ emissions. Low emission logistics requires alternatively fuelled vehicles to combat air pollution from this source;
- **Borough fleet actions:** Southwark's fleet includes light and heavy duty diesel-fuelled vehicles such as mini buses and refuse collection vehicles with high primary NO₂ emissions. Southwark can review its own fleet procurement to lead by example;
- **Localised solutions:** Supporting neighbourhoods to introduce information or undertake actions to improve air quality;
- **Cleaner transport:** Motor vehicles are the largest source of air pollution in London. There is a need to incentivise a modal shift to walking, cycling and ultra-low emission vehicles (such as electric).

¹ Environmental equity, air quality, socioeconomic status and respiratory health, 2010.

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

³ Defra. Air Pollution: Action in a Changing Climate, March 2010

Southwark's themes & priorities

- 1 **Monitoring and other core statutory duties:** evaluating air quality monitoring throughout Southwark to enhance compliance with our core statutory objectives;
- 2 **Emissions from development and buildings:** emissions from construction alone accounts for approximately 40% of the PM₁₀ emissions across Southwark, and therefore work in this area is important in reducing particulate concentrations. This will focus on air quality mitigation through the planning system and aligns with the Council's sustainability objectives;
- 3 **Public health and awareness raising:** increasing awareness can drive behavioural change to lower emissions as well as reducing exposure to air pollution. For example, increasing awareness of the impact of solid fuel burning can help shift attitudes and facilitate overall behaviour change;
- 4 **Delivery servicing and freight:** re-evaluating delivery servicing and freight vehicles, as these are usually heavy-duty diesel-fuelled vehicles with high primary NO₂ emissions;
- 5 **Borough fleet:** Southwark's fleet includes a mixture of light and specialist heavy-duty vehicles, we will continue to lead by example by making improvements in our own fleet by being tailpipe emission free by 2030, (subject to operational requirements)
- 6 **Localised solutions:** these seek to improve the environment of neighbourhoods through a combination of measures such as Streetspace Measures, traffic filtering, parking schemes, biodiversity and climate change projects;
- 7 **Cleaner transport:** road transport is the main source of air pollution in London and Southwark. We will continue to reduce vehicle mileage by incentivising and facilitating changes to walking, cycling, public transport and ultra-low emission vehicles (such as electric);
- 8 **Schools and communities:** implementing initiatives that target susceptible groups to ensure those most at risk are not disproportionately affected by the impacts of poor air quality, and implement recommendations of Southwark's School Air Quality Audits;
- 9 **Lobbying:** Southwark will continue to lobby and influence regional and national organisations and stakeholders on policies and issues beyond Southwark's influence to introduce progressive measures aimed at improving air quality.

Our 10 key priorities are:-

1. Adopt the 2005 WHO guidelines for PM_{2.5} with a target of compliance by 2030, and review the emerging policies from the GLA in respect of the 2021 WHO guidelines.
2. Enforce Non-Road Mobile Machinery (NRMM) air quality policies in Southwark.
3. Minimise emissions from construction by developing Southwark's own Air Quality section within an Environmental Supplementary Planning Document (SPD) and code of construction practice which goes above and beyond the GLA Supplementary Planning Guidance (SPG).
4. Continue to raise awareness and encourage behaviour changes through air quality campaigns.
5. Assess potential impact of installing Ultra-Low Emission Vehicle (ULEV) infrastructure (electric vehicle charging points, rapid electric vehicle charging points).
6. Provision additional electric vehicle charging infrastructure by installing a further 1000 Electric Vehicle charging points in Southwark by 2026.
7. Assess the air quality benefits of actions in the Borough's Strategies.
8. Provide new cycling and walking infrastructure and assess air quality impacts of new infrastructure.
9. Encourage people to switch to less polluting cars, with lower parking fees for zero emissions and smaller vehicles across the whole borough.
10. Lobby Central Government to control and reduce emissions that are out of Southwark's control.

This action plan sets out how we will effectively deliver against the above broad themes and key priorities, thereby improving air quality where it is within our control and through leading by example. However, these are local measures aimed at tackling air pollution, and air pollution by its very nature is transboundary.

Engagement with stakeholders and communities can make a difference to air quality in the borough. We would like to thank everyone who worked with us in the past, and we look forward to working with you again, and with new partners as we deliver this new action plan over the next five years.

This AQAP outlines how we plan to use local levers under our control to greatest effect in tackling air quality.

There are many air quality policy areas outside our influence (such as Euro standards, national vehicle taxation policy, taxis and buses), and we will continue to work with and lobby regional and central government on policies and issues beyond Southwark's direct control.

RESPONSIBILITIES AND COMMITMENT

This AQAP was prepared by the Environmental Protection Team of Southwark Council with the support and agreement of Officers from the following teams and departments:-

- Environmental Protection
- Public Health
- Planning Policy
- Sustainable Services
- Highways Policy
- Climate Change
- External Affairs
- Legal Services
- Public Realm
- Parks
- Ecology & Trees
- Development Control
- Children's Services & Educational Development
- Housing Services & Housing Energy
- Fleet Management
- Information Technology
- Communications
- Procurement

This Air Quality Action Plan has been ratified by Southwark's Cabinet, endorsed by the Cabinet Member for Transport, Parks and Sport, and approved by the Director of Public Health, and Director of Environment with responsibility for Highways.

This AQAP will be subject to an annual review, appraisal of progress and reporting to the Cabinet Member for Leisure, Environment & Roads, and to the Health & Wellbeing Board. Progress each year will be reported in an Annual Status Report produced by Southwark, as part of our statutory London Local Air Quality Management duties.

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FOREWORD

Southwark has been tackling the impact of poor air quality on human health for over 20 years, undertaking the first detailed assessment of local air quality in 2002.

Actions have been taken since this time that have resulted in improved air quality however there is still more to do as we learn about the harms of poor air quality. Air pollution has been listed as a cause of death by a coroner's inquest for the first time, emphasising the need to take urgent action to improve the air that we all breathe.

Air Quality is a public health priority for Southwark and actions to improve air quality are listed in the current and proposed council plan, climate change strategy and we will work to ensure it is recognised in all other Council strategies or plans. We encourage everyone to consider air quality in the choices they make and everything they do.

I am very pleased to promote the many air quality improvement projects Southwark have undertaken in the past, with the recognition that there is much more for us to do.

Major previous successes have included:

- Introducing School Streets at 23 schools to help improve the environment outside schools.
- We have undertaken air quality audits at 24 schools which has helped to identify action that can be taken in and around this sensitive environment.
- We have increased our monitoring of air quality by adding an extra 4 continuous air quality monitoring stations to provide a more detailed picture of air quality in Southwark.
- As new council fleet vehicles are procured emission considerations are at the forefront in the selection process for new council vehicles.

I am looking forward to seeing the completion of projects identified in this Air Quality Plan in particular the review and relaunch of airTEXT, a communication tool that is much needed to inform residents and visitors of the current air quality status in their area.

With the recent review undertaken by the World Health Organisation that resulted in a significant tightening of the guideline values there is a need to constantly strive to reduce air pollution to improve health outcomes.

This revised Air Quality Action Plan lists 65 actions that Southwark will undertake under the London Local Air Quality Management Framework. It gives clear actions and anticipated targets for delivery. These actions will be the minimum that Southwark will deliver.

We expect that new technology, new ideas, new partnerships and new funding opportunities will present themselves and we will consider how these can be applied for the benefit of Southwark residents as they appear.

Southwark fully supports the Mayor of London's aims for the improvement of air quality in London and we will be reporting annually to the Mayor on our progress with regard to the actions listed in this action plan and on the extra actions we take.



A handwritten signature in black ink that reads "Catherine Rose". The signature is written in a cursive, flowing style.

Councillor Catherine Rose

Cabinet Member for Leisure, Environment & Roads

This Action Plan has been approved by Director of Public Health, and Director of Environment with responsibility for Highways.

A handwritten signature in black ink that reads "Sangeeta Leahy". The signature is written in a cursive, flowing style.

Sangeeta Leahy

Director of Public Health

A handwritten signature in black ink that reads "Matt Clubb". The signature is written in a cursive, flowing style.

Matt Clubb

Director of Environment

1 - INTRODUCTION

This plan outlines the actions that Southwark will deliver between 2022 and 2027 to reduce concentrations of air pollution, and exposure to air pollution; to affect positively the health and quality of life of residents and visitors to the borough.

It has been developed in recognition of the legal requirement on the local authority to work towards air quality objectives under Part IV of the Environment Act 1995 and relevant regulations made under that part and to meet the requirements of the London Local Air Quality Management statutory process⁴.

1.1 Summary of current air quality in Southwark

The 2019 UK Clean Air Strategy, provides the overarching strategic framework for air quality management in the UK and contains national air quality standards and objectives established by the Government to protect human health. The Strategy objectives take into account limit values set under EU Directives. Member states are legally required to achieve by their target dates, and on leaving the EU, the UK has incorporated this requirement into national law.

Reviewing Southwark's monitoring data over the last few years show that Southwark is meeting all of the national objectives other than for Nitrogen Dioxide (NO₂). The monitoring data in 2020 has been influenced by the reduced in traffic flows in response to the COVID-19 lockdowns. The 2016 London Atmospheric Emission Inventory concentration maps show that there are areas in Southwark that exceed the legal objectives.

For PM_{2.5} the legal objective is far higher than the World Health Organisation (WHO) recommended guideline limit. For this reason, the Mayor's London Environment Strategy commits to meeting the 2005 WHO health-based guideline limits across London by 2030. Current air quality data indicates that Southwark is exceeding World Health Organisation guideline PM_{2.5} limits. Developing measures to reduce PM_{2.5} will be important to help the Mayor achieve this 2030 target.

Particular Matter (PM) is the term for a mixture of solid particles and liquid droplets found in the air. Some particles, such as dust, dirt, soot, or smoke, are large or dark enough to be seen with the naked eye. Others are so small they can only be detected using an electron microscope.

Particle pollution includes:

- **PM₁₀** : inhalable particles, with diameters 10 micrometres and smaller; and
- **PM_{2.5}**: fine inhalable particles, with diameters 2.5 micrometres and smaller. By comparison, the diameter of a single hair is about 70 micrometres – making it about 30 times larger than the largest fine particle.

⁴ LLAQM Policy and Technical Guidance. <https://www.london.gov.uk/what-we-do/environment/pollution-and-air-quality/working-boroughs>

London Borough of Southwark Annual Mean NO₂ concentrations 2019

LAEI 2019

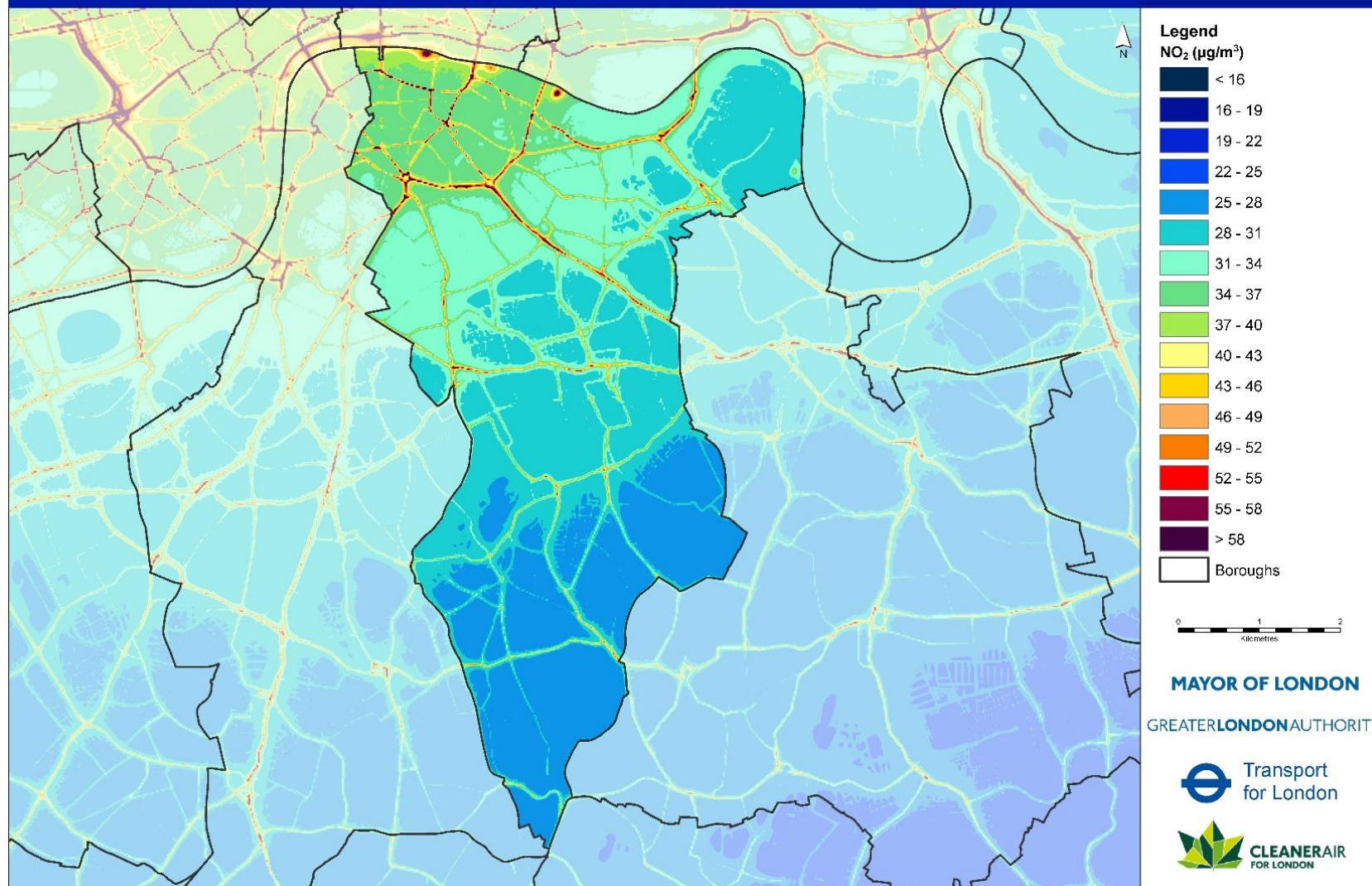


Figure 1 Modelled map of annual mean NO₂ concentrations (from the LAEI 2019)

London Borough of Southwark
Annual Mean PM₁₀ concentrations 2019

LAEI 2019

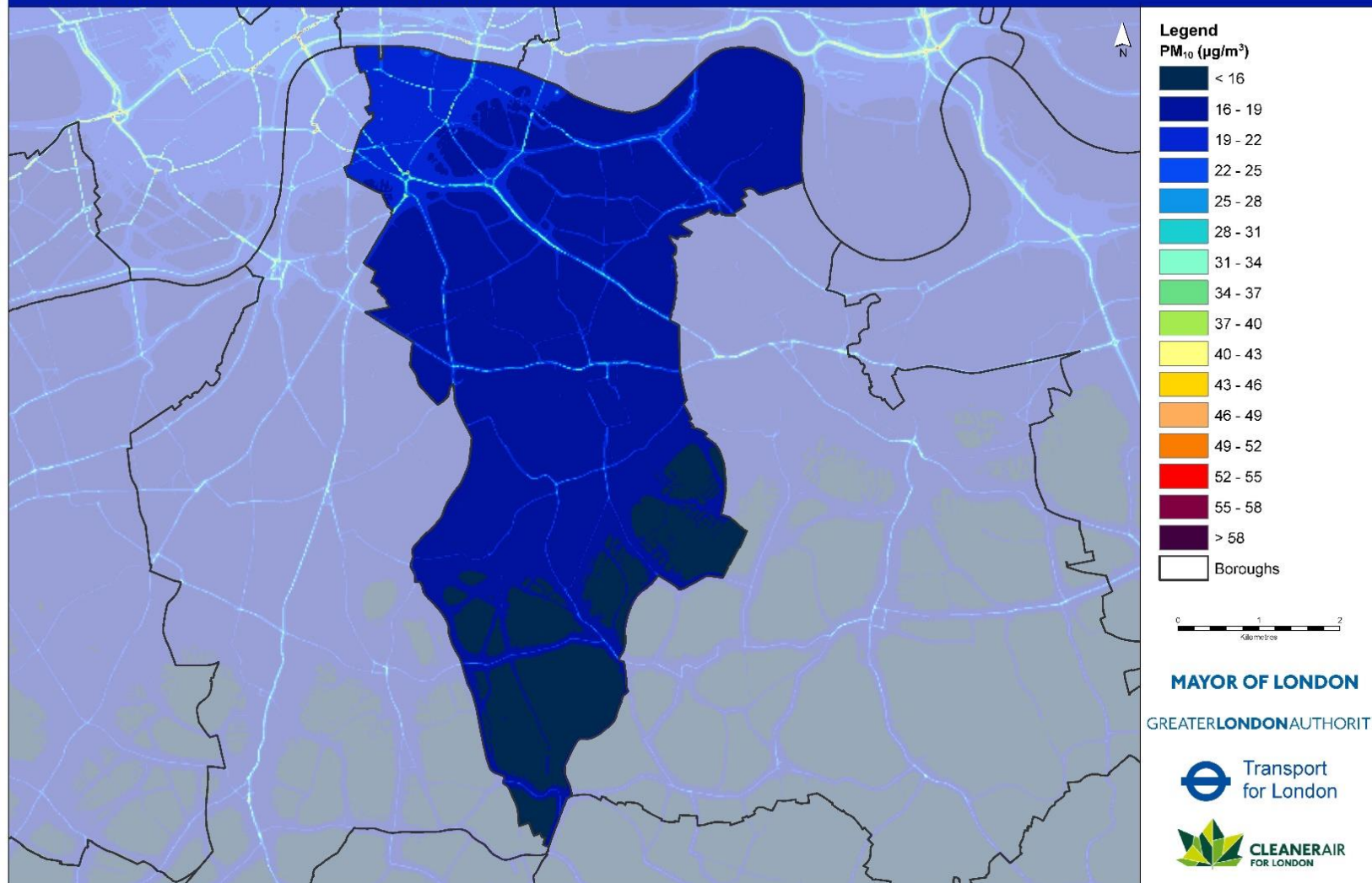


Figure 2 Modelled map of annual mean PM₁₀ (from the LAEI 2019)

London Borough of Southwark
Annual Mean PM_{2.5} concentrations 2019

LAEI 2019

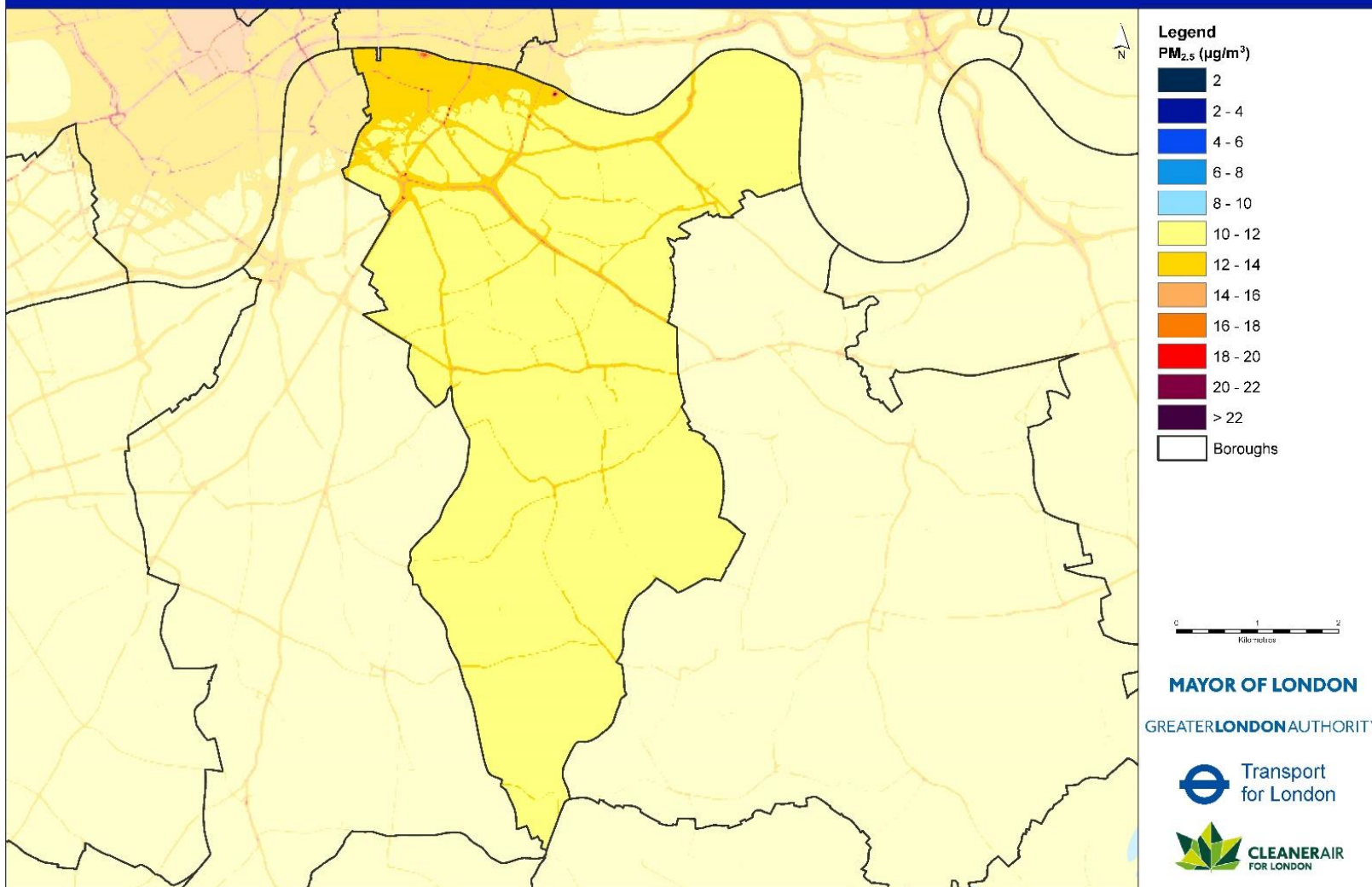


Figure 3 Modelled map of annual mean PM_{2.5} (from the LAEI 2019)

The GLA have released an updated London Atmospheric Emission Inventory in December 2021 (LAEI 2021).

Figure 1 to Figure 3 above show the concentrations of Nitrogen Dioxide and Particulate Matter (PM₁₀ & PM_{2.5}) for Southwark. These maps are based on the data from the London Atmospheric Emission Inventory for 2019 published in 2022.

In 2016, the Greater London Authority (GLA) calculated that 62% of Southwark's population was living in areas that exceeded the Nitrogen Dioxide annual mean concentration objective of 40µg.m⁻³, this has reduced to 2.4% for the 2019 projections. The Population Weighted Average Concentration for PM_{2.5} in 2016 was 14.0µg.m⁻³, in 2019, the Population Weighted Average Concentration for PM_{2.5} was calculated at 11.4µg.m⁻³.

In 2016 the highest concentrations in Southwark for PM₁₀, PM_{2.5} and NO₂ were along main roads which are mostly TfL roads, and in the north-west (central London) of Southwark, where the road network is most dense.

World Health Organisation (WHO) recommends maximum levels that are lower than UK legal levels. The PM_{2.5} WHO Air Quality Guideline 2021 air quality guideline (AQG) level has been reduced from 10µg.m⁻³ to 5µg.m⁻³.

The concentrations for PM₁₀, PM_{2.5} and NO₂ identified in the London Atmospheric Emission Inventory 2019 London wide maps exceed the revised WHO annual mean air quality guidelines throughout the Borough. Southwark Council will explore what additional measures can help meet the revised air quality guidelines for the interim targets. The stricter WHO Air Quality guideline values may not be achievable.

1.2 Air Quality Management Areas

An Air Quality Management Area (AQMA) was declared In Southwark in 2003, and extended to include the whole borough in 2023.

The AQMA was declared for:-

Nitrogen Dioxide. Southwark was failing at the time of the declaration of the Air quality management area to meet EU annual average limit for this pollutant at some of our monitoring stations, and modelling indicates failure also at a number of other locations, and

Particulate Matter (PM₁₀). Although we are meeting EU Limits we exceed the WHO air quality guideline for this pollutant, and we have a formal responsibility to work towards reductions of PM_{2.5}, which is a fraction of PM₁₀.

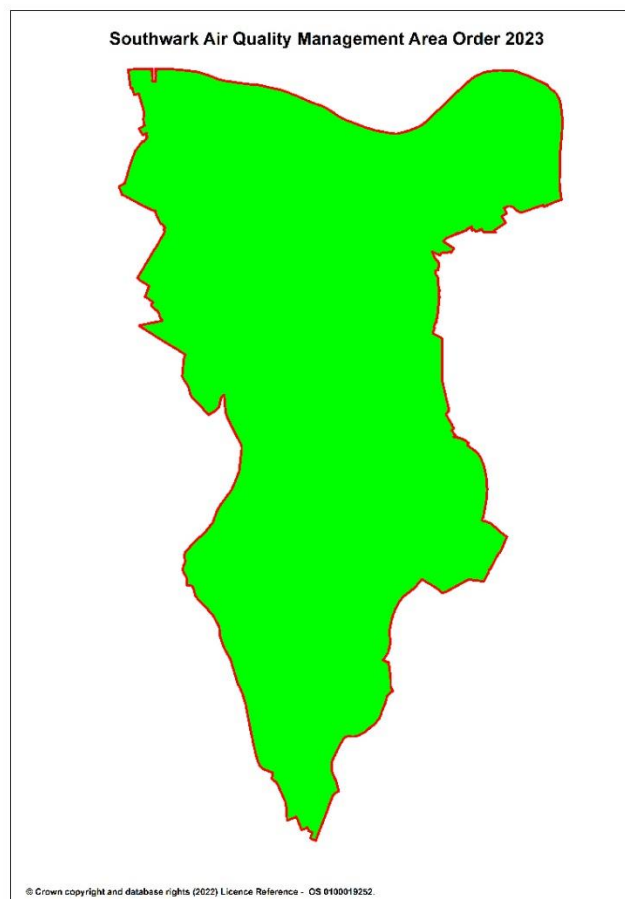


Figure 4 Map of Southwark's AQMA Boundary

1.3 Focus Areas

Air Quality Focus Areas (AQFA) are areas where high levels of pollution are combined with high levels of human exposure. There are seven AQFA in the borough. Revised AQFAs are due to be released by the GLA in autumn 2022. The only change in Southwark is expected to be a reduction in the size of area 152 at Elephant and Castle.

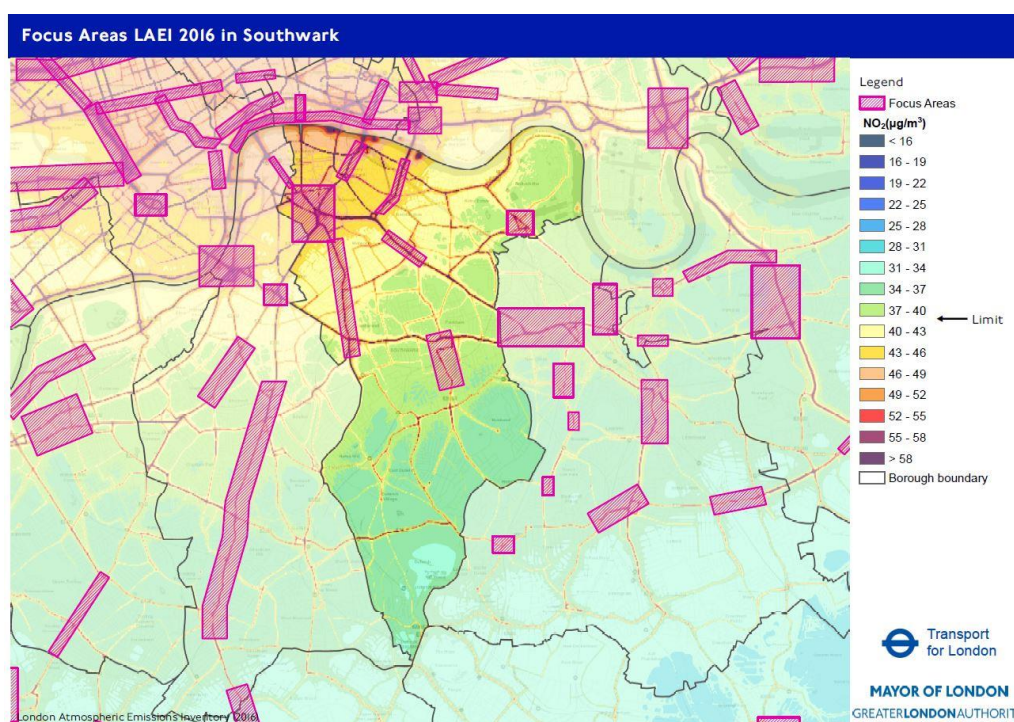


Figure 5 Air Quality Focus Areas in Southwark

These are listed in Table 1 below

GLA Focus Area ID	Name of Focus Area Description
151	A2 Old Kent Road from East Street to Trafalgar Avenue
152	Elephant and Castle to St George's Circus and Kennington Lane
153	London Bridge at Borough High Street
154	Lower Road / A200 Surrey Quays / Rotherhithe Old Road / Rotherhithe New Road
155	Peckham Town Centre
156	Tower Bridge Road A100
157	Walworth Road/Camberwell Road/Camberwell Green

Table A GLA Air Quality Focus Areas in Southwark

1.3.1 Old Kent Road

The Old Kent Road is an Opportunity Area, and will be redeveloped over the next decade, including a proposal to extend the Bakerloo Line to Lewisham from the Elephant and Castle under the Old Kent Road. As part of the planning area action plan work, Southwark has commissioned CERC to produce an air quality model for the opportunity area, to ensure that air quality improvements are incorporated in the various redevelopment projects. Southwark is taking part in the [CRP Clean Air Villages 4 project](#) - Freight Solutions for a Clean Air business recovery from COVID-19 in the Old Kent Road area.

1.3.2 Elephant & Castle

In Elephant & Castle AQFA a London Mayor's Air Quality Fund project included a dust suppressant trial on a construction site, to reduce the dust burden to neighbouring residential areas. A separate trial in this AQFA tested Nitrogen Dioxide reducing reactive surface coatings on new developments. The reports from these two trials can be found [here](#)

Transport for London have also remodelled the north and south roundabouts in this area to assist the movement of vehicles and bicycles throughout the junction.

<https://www.southwark.gov.uk/environment/air-quality/what-we-re-doing/air-quality-projects>

1.3.3 London Bridge / Borough High Street

A Business Low Emission Neighbourhood initiated by the GLA was set up in 2018 in this AQFA, as a partnership between Better Bankside Business Improvement District and Team London Bridge Business Improvement District. Some of the project benefits delivered by the BIDS can be found by following the links below:-

[Tooley Street Triangle](#)
[Orchard-Lisle Living Wall](#)
[Better Air Letters](#)

As a continuation of the Business Low Emission Neighbourhood, both BIDS have delivered the [Bikes for Business project](#) centred on the Low Line, which spans several Business Improvement Districts, and Walworth Road.

1.3.4 Lower Road

Past studies in the Canada Water / Lower Road area have considered removing the 1970's Lower Road / Rotherhithe New Road gyratory system. The latest project will introduce a segregated cycle lane and also a bus gate adjacent to Surrey Quays Station on Lower Road and the Lower Road and Rotherhithe New Road to change the one-way system to two-way traffic. Southwark will continue to monitor air quality in the area.

1.3.5 Peckham

As part of the London Streetscape / COVID-19 project, to help social distancing and improve the environment for walking and cycling, Rye Lane was closed to all vehicles between Peckham Rye and Hanover Place, from July 2020. From the 4th October 2021, an experimental traffic order allows buses, taxis and cyclists to use Rye Lane, and allows timed deliveries between 07:00 hours and 10:00 hours. Southwark will continue air quality monitoring on Rye Lane.

1.3.6 Tower Bridge

Southwark carried out a Mayor's Air Quality Fund project at Tower Bridge. The project aimed to reduce the number of idling vehicles during Tower Bridge lifts, by requesting drivers to switch off their engines as they will be stationary for a period of time. The details of the project can be found [here](#).

The Tower Bridge Primary School has installed an ivy wall on the boundary wall adjacent to Tower Bridge Road. The funding for the wall was part of Southwark's Clean, Greener and Safer Grant scheme. This wall acts as a barrier to reduce the air pollution from Tower Bridge Road effecting the school playground.



Figure 6 Tower Bridge Primary School green wall on Tower Bridge Road boundary

1.3.7 Walworth Road

Southwark successfully applied for Low Emission Neighbourhood Air quality Fund Grant for the Walworth LEN, which will be completed in 2022. The Walworth LEN publicity is shown in Figure 7 below



Figure 7 Walworth Low Emission Neighbourhood publicity material

Further details about Walworth Low Emission Neighbourhood can be seen at <https://ourhealthywalworthlen.commonplace.is/>

1.4 Sources of Pollution in Southwark

Pollution in Southwark comes from a variety of sources. This includes pollution from sources outside of the borough, and, in the case of particulate matter, a significant proportion of this comes from outside of London and even the UK.

Sources of Nitrogen Dioxide pollution in Southwark

The main sources of NO₂ in the borough are road transport, particularly diesel vehicles, and domestic and commercial heating. The London Mayor's Low Emission Zone and the Ultra – Low Emission Zone, will contribute to future emissions reductions from road transport due to renewal of vehicles in the transport fleet.

LAEI - Emissions by Source
NO_x Emissions, Southwark, 2019

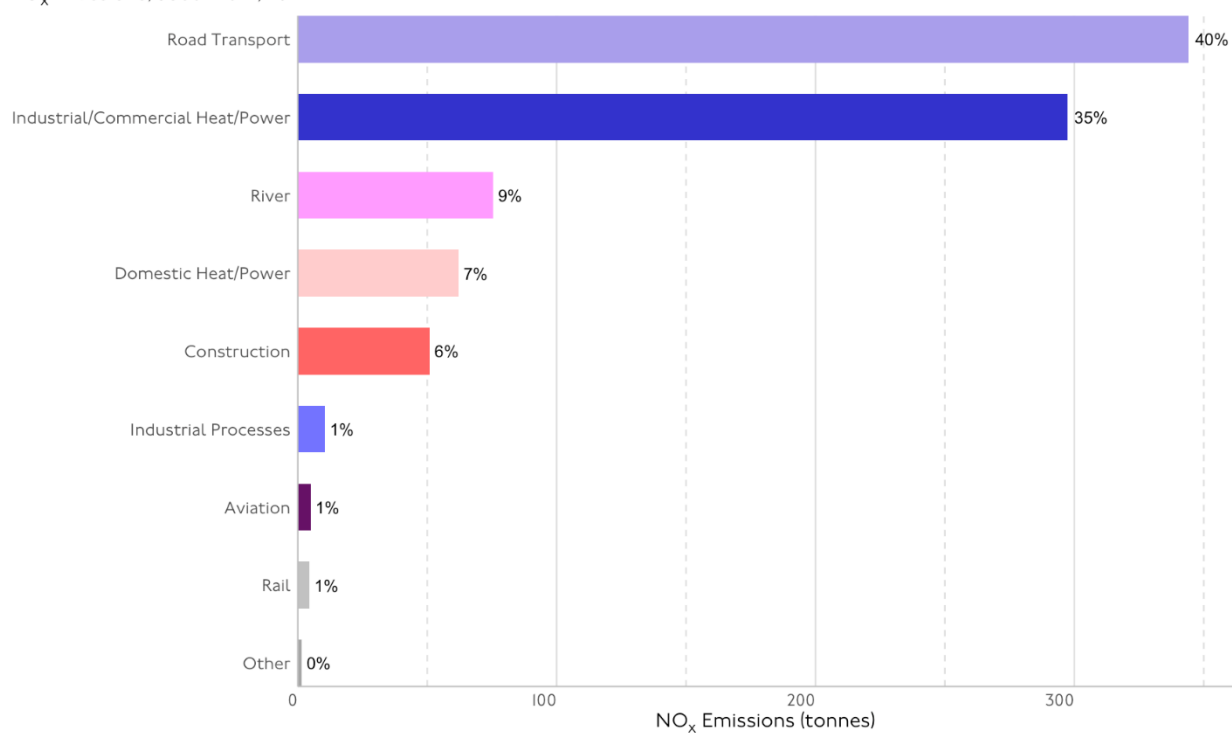


Figure 8 NO_x Emissions by source (from the LAEI 2019)

	Southwark 2013 NO _x Emissions (tonnes per annual)	Southwark 2013 NO _x Emissions (%)	Southwark 2016 NO _x Emissions (tonnes per annual)	Southwark 2016 NO _x Emissions (%)	Southwark 2019 NO _x Emissions (tonnes per annual)	Southwark 2019 NO _x Emissions (%)
Domestic	89.89	7.04%	71.59	6.39%	63.90	7.52%
Biomass	0.00	0.00%	0.00	0.00%	0.00	0.00%
Heat and Power Generation	89.60	7.01%	71.30	6.37%	63.61	7.49%
Machinery	0.29	0.02%	0.29	0.03%	0.30	0.03%
Industrial and Commercial	361.06	28.26%	343.00	30.63%	355.06	41.80%
Heat and Power Generation	288.85	22.61%	279.70	24.97%	293.53	34.56%
Commercial Cooking	0.00	0.00%	0.00	0.00%	0.00	0.00%
Construction	63.45	4.97%	52.66	4.70%	50.98	6.00%
Gas Leakage	0.00	0.00%	0.00	0.00%	0.00	0.00%
Industrial Processes	8.73	0.68%	10.61	0.95%	10.51	1.24%
Waste	0.03	0.00%	0.03	0.00%	0.03	0.00%
Miscellaneous	1.63	0.13%	1.42	0.13%	1.19	0.14%
Accidental Fires	1.01	0.08%	0.83	0.07%	0.67	0.08%
Agriculture	0.62	0.05%	0.59	0.05%	0.52	0.06%
Forestry	0.00	0.00%	0.00	0.00%	0.00	0.00%
Resuspension						
Resuspension	0.00	0.00%	0.00	0.00%	0.00	0.00%
Transport	824.97	64.57%	703.92	62.85%	429.23	50.53%
Aviation	6.25	0.49%	6.24	0.56%	4.92	0.58%
Rail	4.55	0.36%	4.47	0.40%	4.57	0.54%
River	57.59	4.51%	75.17	6.71%	75.54	8.89%
Road Transport	756.58	59.22%	618.05	55.19%	344.19	40.52%
Grand Total	1277.56	100.00%	1119.93	100.00%	849.38	100.00%

Table B NO_x Aggregated Emissions in Southwark for 2013-2019 (LAEI 2019)

Sources of particulate (PM₁₀) pollution in Southwark

Construction work associated with the redevelopment of Southwark is the largest source of Particulate Matter (PM₁₀) emissions. Particulate Matter (PM₁₀) from road transport is the next largest source of emissions, with private cars being the largest source.

LAEI - Emissions by Source

PM₁₀ Emissions, Southwark, 2019

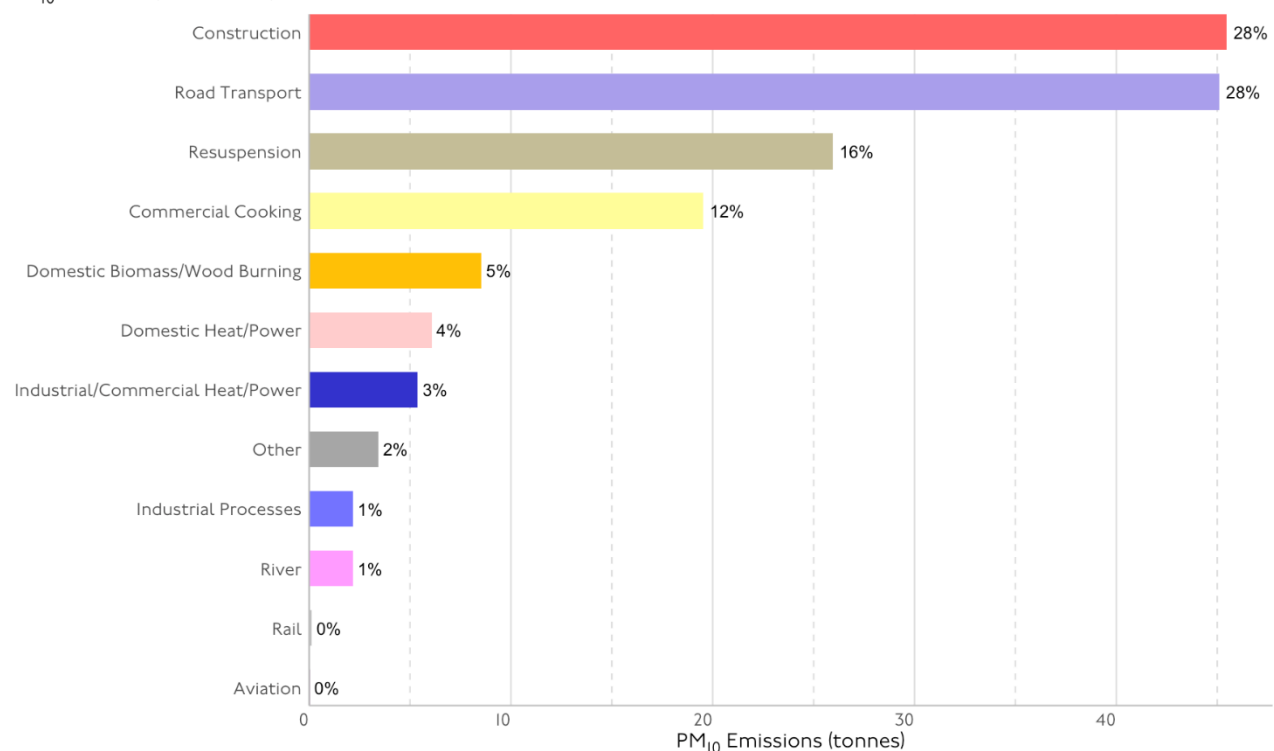


Figure 9 PM₁₀ Emissions by source (from the LAEI 2019)

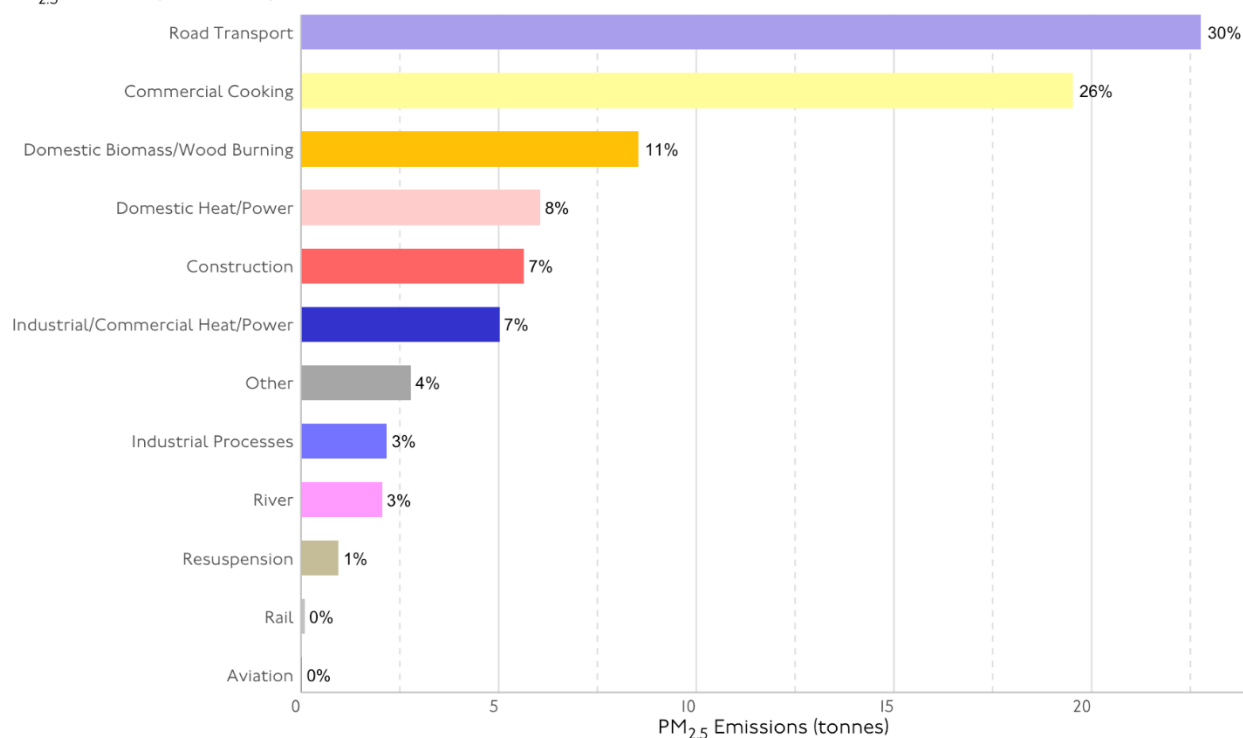
	Southwark 2013 PM ₁₀ Emissions (tonnes per annual)	Southwark 2013 PM ₁₀ Emissions (%)	Southwark 2016 PM ₁₀ Emissions (tonnes per annual)	Southwark 2016 PM ₁₀ Emissions (%)	Southwark 2019 PM ₁₀ Emissions (tonnes per annual)	Southwark 2019 PM ₁₀ Emissions (%)
Domestic	19.93	10.58%	14.46	6.99%	14.71	8.97%
Biomass	13.60	7.22%	8.53	4.12%	8.53	5.20%
Heat and Power Generation	6.32	3.36%	5.92	2.86%	6.18	3.77%
Machinery	0.01	0.00%	0.01	0.00%	0.01	0.00%
Industrial and Commercial	72.25	38.34%	101.45	49.04%	72.89	44.45%
Heat and Power Generation	5.37	2.85%	5.07	2.45%	5.33	3.25%
Commercial Cooking	18.63	9.88%	18.63	9.00%	19.52	11.90%
Construction	45.96	24.39%	75.25	36.38%	45.47	27.73%
Gas Leakage	0.00	0.00%	0.00	0.00%	0.00	0.00%
Industrial Processes	1.88	1.00%	2.10	1.01%	2.17	1.33%
Waste	0.41	0.22%	0.41	0.20%	0.41	0.25%
Miscellaneous	3.91	2.08%	3.87	1.87%	3.00	1.83%
Accidental Fires	3.58	1.90%	3.34	1.62%	2.46	1.50%
Agriculture	0.33	0.17%	0.53	0.26%	0.54	0.33%
Forestry	0.00	0.00%	0.00	0.00%	0.00	0.00%
Resuspension	29.18	14.10%	28.93	13.98%	25.94	15.82%
Resuspension	29.18	14.10%	28.93	13.98%	25.94	15.82%
Transport	63.16	33.52%	58.16	28.12%	47.43	28.92%
Aviation	0.03	0.02%	0.03	0.02%	0.02	0.01%
Rail	0.11	0.06%	0.12	0.06%	0.12	0.07%
River	2.29	1.21%	2.16	1.04%	2.16	1.32%
Road Transport	60.73	32.23%	55.85	27.00%	45.12	27.52%
Grand Total	188.44	100.00%	206.87	100.00%	163.97	100.00%

Table C PM₁₀ Aggregated Emissions in Southwark for 2013 – 2019 (LAEI 2019)

Sources of Particulate (PM_{2.5}) pollution in Southwark

The predominant sources of PM_{2.5} in Southwark is from road transport, 30% of the total emissions, with emissions from commercial cooking producing 26% of the total, heating and electricity generation producing 25% of the total emissions, and construction producing 7.5% of the total emissions. There are controls over emissions from road transport with ULEZ, and from construction sites through planning permissions. Emissions from commercial cooking and heating are controlled only through the planning process, by requiring adequate dispersion of flue gases and suitable filtration.

LAEI - Emissions by Source
PM_{2.5} Emissions, Southwark, 2019



Source: Strategic Analysis, TfL City Planning

Figure 10. PM_{2.5} Emissions by source (from the LAEI 2019)

	Southwark 2013 PM _{2.5} Emissions (tonnes per annual)	Southwark 2013 PM _{2.5} Emissions (%)	Southwark 2016 PM _{2.5} Emissions (tonnes per annual)	Southwark 2016 PM _{2.5} Emissions (%)	Southwark 2019 PM _{2.5} Emissions (tonnes per annual)	Southwark 2019 PM _{2.5} Emissions (%)
Domestic	19.91	21.32%	14.44	16.84%	14.69	19.42%
Biomass	13.60	14.56%	8.53	9.95%	8.53	11.27%
Heat and Power Generation	6.30	6.75%	5.91	6.89%	6.16	8.14%
Machinery	0.01	0.01%	0.01	0.01%	0.01	0.01%
Industrial and Commercial	31.97	34.24%	34.46	40.19%	32.68	43.20%
Heat and Power Generation	5.05	5.41%	4.73	5.51%	4.97	6.57%
Commercial Cooking	18.63	19.95%	18.63	21.73%	19.52	25.80%
Construction	6.05	6.48%	8.64	10.07%	5.64	7.46%
Gas Leakage	0.00	0.00%	0.00	0.00%	0.00	0.00%
Industrial Processes	1.88	2.01%	2.10	2.45%	2.17	2.87%
Waste	0.37	0.40%	0.37	0.44%	0.38	0.50%
Miscellaneous	3.43	3.68%	3.22	3.76%	2.40	3.17%
Accidental Fires	3.33	3.56%	3.10	3.62%	2.28	3.02%
Agriculture	0.10	0.11%	0.12	0.14%	0.11	0.15%
Forestry	0.00	0.00%	0.00	0.00%	0.00	0.00%
Resuspension	1.07	1.14%	1.06	1.23%	0.95	1.25%
Resuspension	1.07	1.14%	1.06	1.23%	0.95	1.25%
Transport	37.00	39.62%	32.55	37.97%	24.93	32.96%
Aviation	0.03	0.03%	0.03	0.04%	0.02	0.03%
Rail	0.08	0.09%	0.09	0.10%	0.09	0.12%
River	2.18	2.33%	2.05	2.39%	2.05	2.71%
Road Transport	34.71	37.17%	30.38	35.44%	22.77	30.09%
Grand Total	93.38	100.00%	85.73	100.00%	75.66	100.00%

Table D PM_{2.5} Aggregated Emissions in Southwark for 2013 – 2019 (LAEI 2019)

1.4 Monitoring of Air Quality in Southwark

Southwark monitors air quality with automatic continuous air quality monitors, Nitrogen dioxide diffusion tubes, and low cost air quality sensors.

The automatic continuous monitors are listed in Table E below.

Site Reference	Location of the site	Monitoring
SWK 5	Old Kent Road	Nitrogen Dioxide and Particulate Matter (PM ₁₀ & PM _{2.5})
SWK 9	Old Kent Road	Particulate Matter (PM ₁₀ & PM _{2.5})
SWK 6	Elephant & Castle	Nitrogen Dioxide, Particulate Matter (PM ₁₀ & PM _{2.5}) and Ozone
SWK 8	Tower Bridge Road	Nitrogen Dioxide and Particulate Matter (PM ₁₀ & PM _{2.5})
SWK A	Lower Road	Nitrogen Dioxide and Particulate Matter (PM ₁₀ & PM _{2.5})
SWK B	Vicarage Grove	Nitrogen Dioxide and Particulate Matter (PM ₁₀ & PM _{2.5})
SWK C	South Circular Road	Nitrogen Dioxide and Particulate Matter (PM ₁₀ & PM _{2.5})

Table E Southwark automatic continuous monitoring stations

In 2021, Southwark has 88 Nitrogen Dioxide diffusion tube monitoring locations. The location of these sites can be seen Figure 12 below.

Southwark also monitors the air quality using various low – cost sensors. These low cost sensors are not reference monitors, and they produce indicative data. They are used by highway projects to show relative variation over time in air quality data.

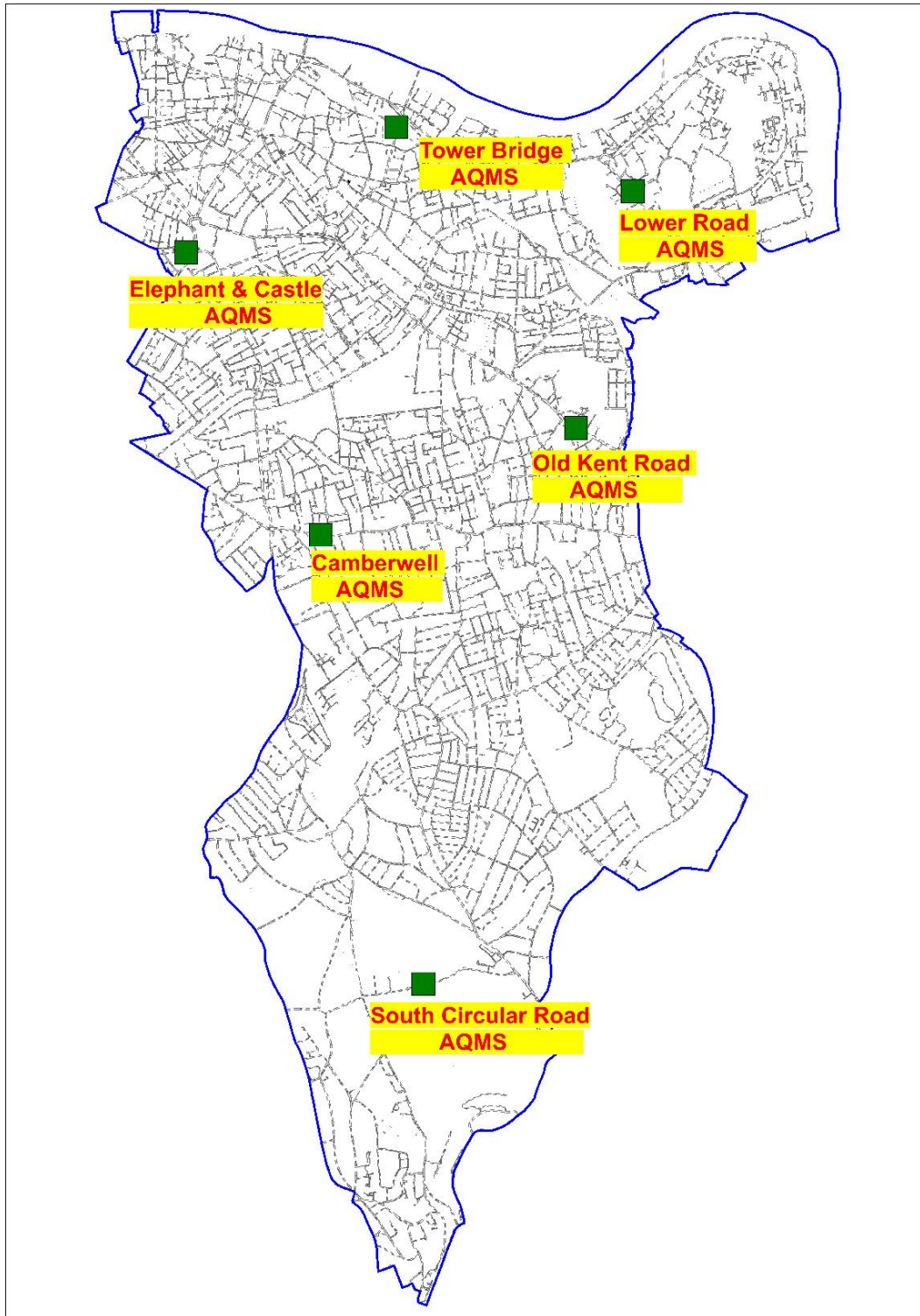


Figure 11 Map of the Southwark's automatic continuous air quality monitoring stations

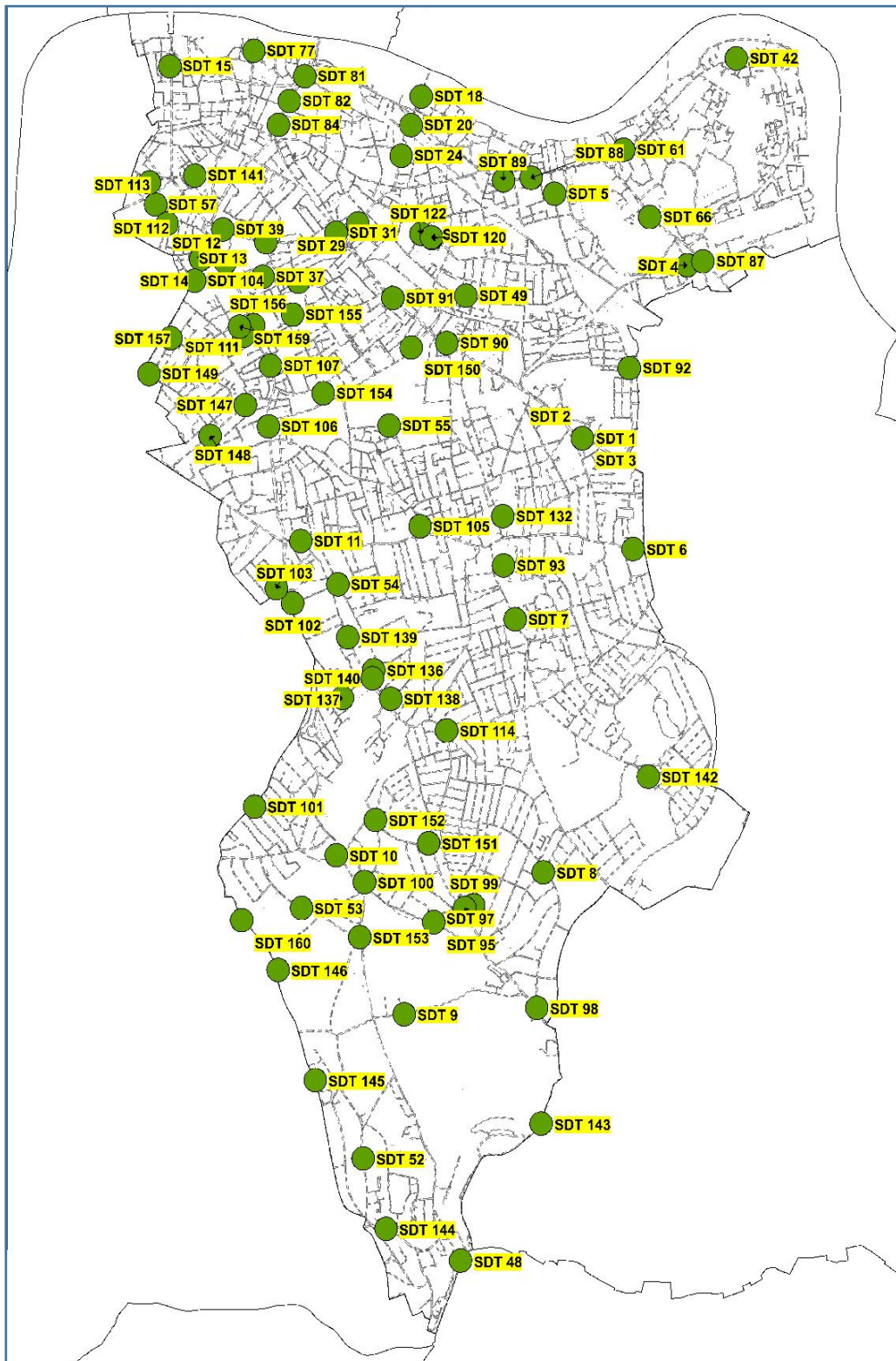


Figure 12 Southwark’s Nitrogen Dioxide diffusion tube survey 2021

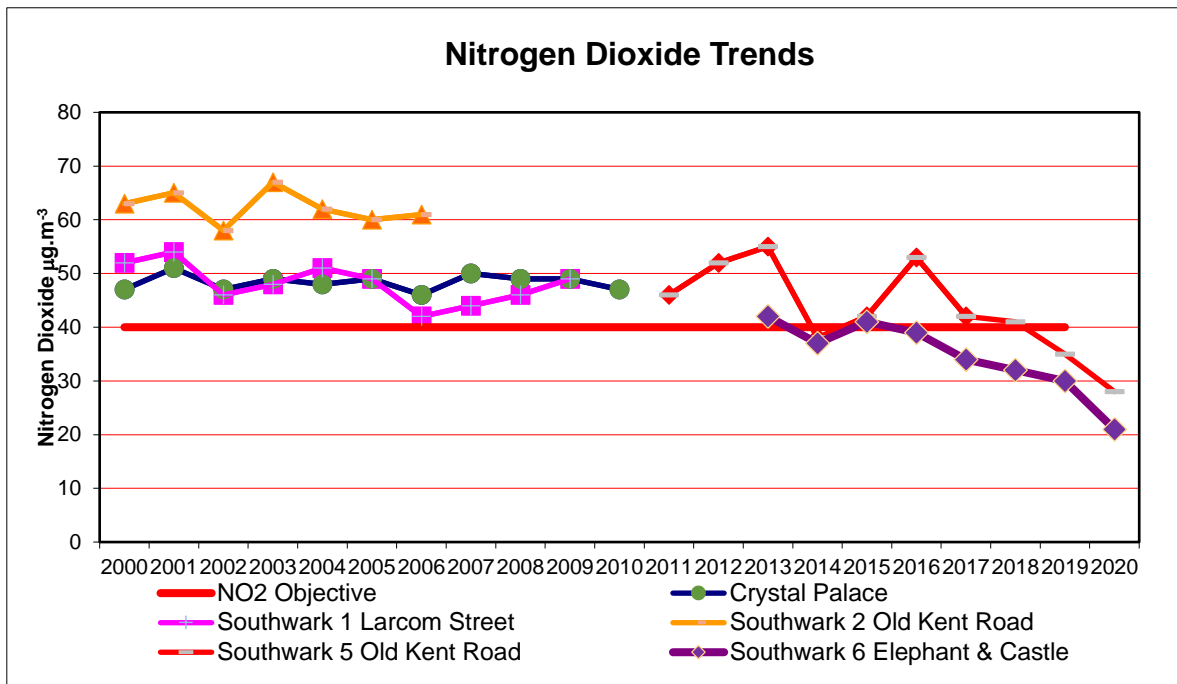


Figure 13 Trend in annual mean NO₂ concentrations at Southwark’s air quality monitoring stations

Figure 13 above shows historic NO₂ data trends from Southwark automatic air quality monitoring stations, indicating an improvement in Southwark’s air quality since 2003. This trend is also shown for PM₁₀ in Figure 14 below.

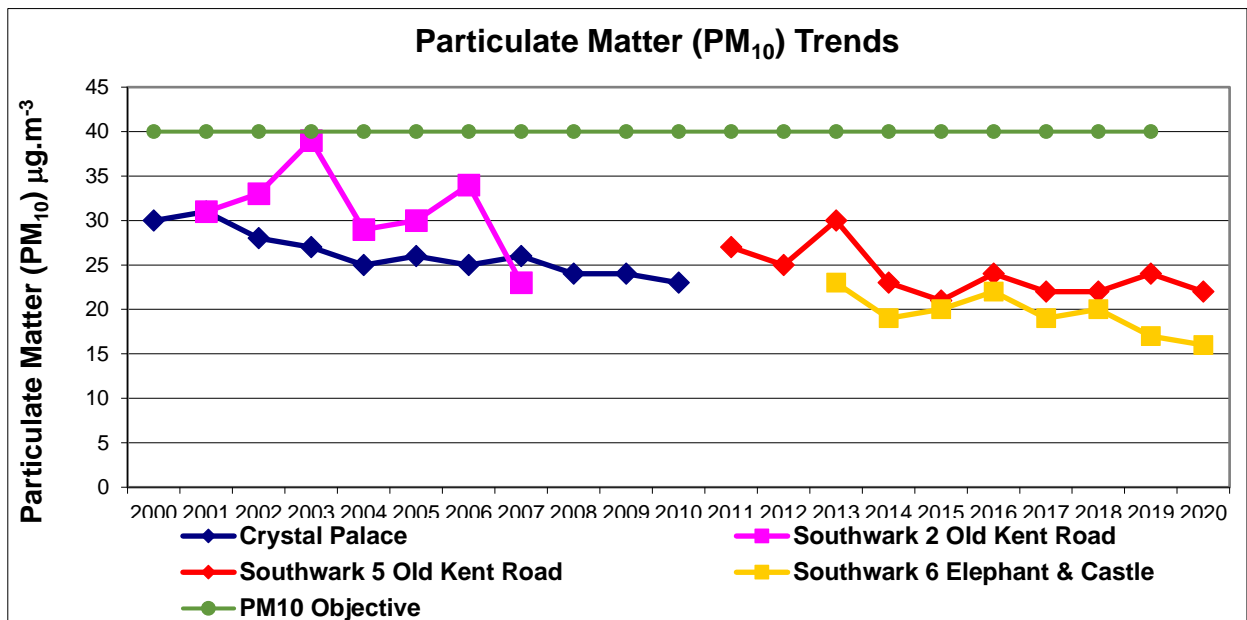


Figure 14 Trend in annual mean PM₁₀ concentrations at Southwark’s air quality monitoring stations

2 - SOUTHWARK AIR QUALITY PRIORITIES

Themes

- 1 *Monitoring and other core statutory duties:*** evaluating air quality monitoring throughout Southwark to enhance compliance with our core statutory objectives;
- 2 *Emissions from development and buildings:*** emissions from construction alone accounts for approximately 40% of the PM₁₀ emissions across Southwark, and therefore work in this area is important in reducing particulate concentrations. This will focus on air quality mitigation through the planning system and aligns with the Council's sustainability objectives;
- 3 *Public health and awareness raising:*** increasing awareness can drive behavioural change to lower emissions as well as reducing exposure to air pollution. For example, increasing awareness of the impact of solid fuel burning can help shift attitudes and facilitate overall behaviour change;
- 4 *Delivery servicing and freight:*** re-evaluating delivery servicing and freight vehicles, as these are usually heavy-duty diesel-fuelled vehicles with high primary NO₂ emissions;
- 5 *Borough fleet:*** Southwark's fleet includes a mixture of light and specialist heavy-duty vehicles, we will continue to lead by example by making improvements in our own fleet by being tailpipe emission free by 2030, (subject to operational requirements)
- 6 *Localised solutions:*** these seek to improve the environment of neighbourhoods through a combination of measures such as Streetspace Measures, traffic filtering, parking schemes, biodiversity and climate change projects;
- 7 *Cleaner transport:*** road transport is the main source of air pollution in London and Southwark. We will continue to reduce vehicle mileage by incentivising and facilitating changes to walking, cycling, public transport and ultra-low emission vehicles (such as electric);
- 8 *Schools and communities:*** implementing initiatives that target susceptible groups to ensure those most at risk are not disproportionately affected by the impacts of poor air quality, and implement recommendations of Southwark's School Air Quality Audits;
- 9 *Lobbying:*** Southwark will continue to lobby and influence regional and national organisations and stakeholders on policies and issues beyond Southwark's influence to introduce progressive measures aimed at improving air quality.

Our 10 key priorities are:-

1. Adopt the 2005 WHO guidelines for PM_{2.5} with a target of compliance by 2030, and review the emerging policies from the GLA in respect of the 2021 WHO guidelines
2. Enforce Non-Road Mobile Machinery (NRMM) air quality policies in Southwark.
3. Minimise emissions from construction by developing Southwark's own Air Quality section within an Environmental Supplementary Planning Document (SPD) and code of construction practice which goes above and beyond the GLA Supplementary Planning Guidance (SPG);
4. Continue to raise awareness and encourage behaviour changes through air quality campaigns.
5. Assess potential impact of installing Ultra-Low Emission Vehicle (ULEV) infrastructure (electric vehicle charging points, rapid electric vehicle charging points).
6. Provision additional electric vehicle charging infrastructure by installing a further 1000 Electric Vehicle charging points in Southwark by 2026.
7. Assess the air quality benefits of actions in the Borough's Strategies.
8. Provide new cycling and walking infrastructure and assess air quality impacts of new infrastructure.
9. Encourage people to switch to less polluting cars, with lower parking fees for zero emissions and smaller vehicles across the whole borough.
10. Lobby Central Government to control and reduce emissions that are out of Southwark's control.

This action plan sets out how we will effectively deliver against the above broad themes and key priorities, thereby improving air quality where it is within our control and through leading by example. However, these are local measures aimed at tackling air pollution, and air pollution by its very nature is transboundary.

3 - DEVELOPMENT AND IMPLEMENTATION OF SOUTHWARK'S AIR QUALITY ACTION PLAN

3.1 Consultation and Stakeholder Engagement

In developing/updating the action plan we have worked with other local authorities, agencies, businesses and the local community to improve local air quality. Schedule 11 of the Environment Act 1995 requires local authorities to consult the bodies listed in Table F. In addition we have undertaken the following stakeholder engagement:

- Southwark Council consultation hub
- Public notices in Council Offices
- Advertisement in Southwark Life (council publication)
- Advertisements in Southwark News (local independent newspaper)

Yes/No	Consultee
Yes	the Environment Agency
Yes	Transport for London and the Mayor of London (who will provide a joint response)
Yes	all neighbouring local authorities
Yes	other public authorities as appropriate
Yes	bodies representing local business interests and other organisations as appropriate See Appendix A.

Table F Consultation Undertaken

3.2 Steering Group

Southwark's Steering Group, meets regularly under a formal structure, with senior officers from the following teams recruited into the group's regular membership ('primary members'):-

- Environmental Protection
- Public Health
- Planning Policy
- Sustainable Services
- Highways
- Climate Change

Other services/teams would be invited to the Air Quality Action Plan Group meetings when items relevant to their delivery responsibilities are placed on the agenda:-

- External Affairs
- Legal Services
- Public Realm
- Parks
- Ecology & Trees
- Development Control
- Children's Services & Educational Development
- Housing Services & Housing Energy
- Fleet Management
- IT
- Communications
- Procurement

The Terms of Reference of the AQAPSG:-

- 1) The Air Quality Action Plan Steering Group (AQAPSG) will meet every three months.
- 2) The first meeting of the AQAPSG will comprise of Directors or nominated representatives from the following business areas:

- Environmental Protection
- Public Health
- Planning Policy
- Sustainable Services
- Highways
- Climate Change

4 – AIR QUALITY ACTION PLAN

Action Tables 1 to 7 shows the draft Southwark’s Air Quality Action Plans. It contains:

- a list of the actions that form part of the plan;
- the responsible individual and departments/organisations who will deliver this action;
- estimated cost to the council;
- expected benefit in terms of emissions and concentration reduction;
- the timescale for implementation
- the outputs, targets and Key Performance Indicators
- how progress will be monitored.

The actions have been grouped into seven categories:

- Monitoring and core statutory duties;
- Emissions from developments and buildings;
- Public health and awareness raising;
- Delivery servicing and freight;
- Borough fleet actions;
- Localised solutions; and:
- Cleaner transport

GLA nine key selected measures:

The LLAQM Borough Air Quality Action Matrix says that all boroughs should be focusing on these nine key selected actions as a priority. These are the most effective to tackle exposure and/or emissions, and require concerted and consistent action across London to secure impact as soon as possible. However, this doesn’t preclude boroughs also having additional locally-appropriate priorities.

- Enforcing the Non-Road Mobile Machinery (NRMM) Low Emission Zone
- Promoting and enforcing smoke control zones
- Promoting and delivering energy efficiency retrofitting projects in workplaces and homes
- Supporting alerts services such as Airtex, and promoting the Mayor’s air pollution forecasts
- Reducing pollution in and around schools, and extending school audits to other schools in polluted areas
- Installing Ultra Low Emission Vehicle (ULEV) infrastructure
- Improving walking and cycling infrastructure
- Regular Car Free days/temporary road closures in high footfall areas
- Reducing emissions from council fleets

There are nine elements that the GLA requires to be included in the Air Quality Action Plan. As a result 11 actions have been developed these are:

- 2.11 - Promoting and delivering energy efficiency and energy supply retrofitting projects in all buildings workplaces and homes through EFL retrofit programmes such as RE:FIT, RE;NEW, DEEP and through Borough carbon offset funds.
- 2.12 - Southwark's Smoke Control Area is fully promoted and enforced.
- 3.4 - Southwark supports airTEXT and promotes and shares the GLA high pollution alert services.
- 3.5 - Improve the uptake of Air Quality information to vulnerable persons in the Borough.
- 3.6 - Provide air quality information leaflets at health care facilities, libraries, pharmacies and other frequently used facilities.
- 3.7 - Promote School Air Quality Audits to all schools in the Borough.
- 3.8 - Reducing pollution in and around schools.
- 5.1 - Reducing emissions from Council Fleets.
- 7.3 - Regular temporary car free days and pedestrianisation schemes in line with proposal 4.2.1a of the London Environment Strategy.
- 7.5 - Using parking policy to reduce pollution emissions.
- 7.6 - Provision of infrastructure to support walking and cycling.
- 7.7 – Installation of ultra – low emission vehicle infrastructure charging points.

Action Table 1 Monitoring and Core Statutory Duties Air Quality Action Plan

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/ concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Processes	People
	Action Reference Number	Description of action to be implemented	Name of Council Department with responsibility for action implementation	Anticipated cost of action implementation £ = 0 – 50k ££ = 50 – 100k £££ = >100k	High = 3 Medium = 2 Low = 1	Proposed timescale for implementation	What the key performance Indicators for implementation will be	Links to separate document or a reference.			
Southwark's legal duty to monitor air pollution and Air Quality Action Plan	1.1	Maintain the Authority's automatic air quality monitoring stations in the Borough	Environment & Leisure - Regulatory Services – Environmental Protection Team	£	No emissions / concentrations benefits but critical in terms of understanding emissions	Ongoing for maintenance of monitors	All monitors maintained and over 90% data capture annually. The data from the monitoring all the sites can be found at https://www.londonair.org.uk/london/asp/publicbulletin.asp?la_id=28&MapType=Google	Details of our monitoring can be found here: https://www.southwark.gov.uk/environment/air-quality/air-quality-monitoring-data Air quality monitoring data is used to inform the location and type of future air quality improvement projects.	EPT Officer. Supported by contracted Local Site Operator, and Maintenance contract.	Review LSO and Site Maintenance reports. Contract monitoring. Contract re-tendering.	Internal Contractors.
	1.2	Maintain the Authority's Nitrogen Dioxide Diffusion Tube Survey in the Borough in accordance with current guidance	Environment & Leisure - Regulatory Services – Environmental Protection Team	£	No emissions / concentrations benefits but critical in terms of understanding emissions	Ongoing	All Diffusion tube results to be published within 5 weeks of collection on the website	Details of our monitoring can be found here: https://www.southwark.gov.uk/environment/air-quality/air-quality-monitoring-data	EPT Officer, supported by external accredited laboratory service.	Monthly timetabled deployment. Cold chain storage and chain of custody.	External laboratory.
	1.3	Work with the GLA Breathe London Project	Environment & Leisure - Regulatory Services – Environmental Protection Team	£	No emissions / concentrations benefits but critical in terms of understanding emissions	Ongoing	Southwark has several sites in Borough, details to be reported annually.	Details of the project can be found here https://www.breathelondon.org/	Automatic data reporting to Breathe London website.	Calibration, deployment, service and maintenance	GLA. Global Action Plan. Local community organisations
	1.4	Prepare and produce all London Local Air Quality Management Framework reports as required.	All departments	£	No emissions / concentrations benefits	Ongoing	Submission of the Annual Status Report to the GLA KPI – Report submitted by the 31 st May each year	All the annual status Reports can be found at https://www.southwark.gov.uk/environment/air-quality/what-we-re-doing/air-quality-strategies-plans-and-letters?chapter=2			EPT. Air Quality Steering Group.

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/ concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Processes	People
Southwark's legal duty to monitor air pollution and Air Quality Action Plan	1.5	New publicly consulted Air Quality Action Plan every 5 years	All departments	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide depending on the nature of the measures	Ongoing	The next full revised Air Quality Action Plan is due 2028. KPI - This plan will reviewed annually to ensure that it is up to date.	The present Air Quality Action Plan can be found at https://www.southwark.gov.uk/environment/air-quality/what-we-re-doing/air-quality-strategies-plans-and-letters		Member briefing Internal consultation Public consultation Adoption through Cabinet	Lead Member Air Quality Steering Group All stakeholders Cabinet
	1.6	Review the Authority's Air Quality Management Area and air quality action plan annually	Environment & Leisure - Regulatory Services – Environmental Protection Team	£	No emissions / concentrations benefits	Ongoing	Review every year when preparing the Annual status report ASR will have an annual progress report published within it.	The current Air Quality Management Area can be found at https://www.southwark.gov.uk/assets/attach/3635/Southwark-air-quality-management-area-order-2003.pdf		Member briefing Internal consultation Statutory consultation Adoption through Cabinet	Lead Member Air Quality Steering Group All stakeholders Cabinet
	1.7	Respond to all appropriate air quality consultations	Environment & Leisure - Regulatory Services – Environmental Protection Team	£	Possible reduction in emissions of Particulate Matter and Nitrogen Dioxide depending on the nature of the consultation 1 - 3	Ongoing	Consultation to be responded within consultation timetable.			Internal approvals/ member briefing	EPT Officer Lead Member Air Quality Steering Group
	1.8	Support the introduction of a new or revised Clean Air Act that improves public protection from atmospheric pollution	Environment & Leisure - Regulatory Services – Environmental Protection Team	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2 - 3	Ongoing	To lobby Government for the introduction of the Clean Air Act and / or GLA to introduce new Clean Air provisions within a London Local Authority Act.			Internal approvals/ member briefing	GLA London Councils All Stakeholders
	1.9	Respond to Defra Environment Act 2021 consultation in setting a PM _{2.5} target to improve public protection from Particulate Matter (PM _{2.5}) atmospheric pollution	Environment & Leisure - Regulatory Services – Environmental Protection Team	£	Reduction in emissions of Particulate Matter 2 - 3	Ongoing	To lobby Government for the inclusion of WHO PM _{2.5} guidelines into the Environment Act 2021 regulations KPI – Report annually			Internal approvals/ member briefing	London Councils All Stakeholders
	1.10	Promote delivery of information on Pollen.	Environment & Leisure - Regulatory Services – Environmental Protection Team	£	No emissions / concentrations benefits		airTEXT distributes information on Pollen which is available through a daily text.				

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/ concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Processes	People
Southwark's legal duty to monitor air pollution and Air Quality Action Plan	1.11	To adopt the World Health Organization air quality guidelines	Environment & Leisure - Regulatory Services – Environmental Protection Team	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 3	2022	L.B. Southwark to adopt the guidelines as part of Air Quality Action Plan and work with the Mayor of London towards meeting the standard by 2030 KPI – Report annually			As AQAP (Member briefing Internal consultation Statutory consultation Adoption through Cabinet)	As AQAP (Lead Member Air Quality Steering Group All stakeholders Cabinet)
	1.12	Review best practice and technical guidance on the use of Low Cost Sensors	Environment & Leisure - Regulatory Services – Environmental Protection Team	£	No emissions / concentrations benefits but critical in terms of understanding emissions	Ongoing	QA and QC report on performance of low cost sensors will be published in the ASR.		EPT Officers	EPT Work plan	EPT Officers Professional and Technical air quality forums
	1.13	Embed air quality considerations in all new Council policies.	All Departments	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1	Ongoing	Report annually in the ASR.			Internal policy reviews	Southwark Policy Officers

Action Table 2 Emissions from developments and buildings air quality action plan

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/ concentrations benefit	Timescale for implementati on	Outputs, Targets and KPIs	Further information	Technical	Processes	People
	Action Reference Number	Description of action to be implemented	Name of Council Department with responsibility for action implementation	Anticipated cost of action implementation £ = 0 – 50k ££ = 50 – 100k £££ = >100k	High = 3 Medium = 2 Low = 1	Proposed timescale for implementation	What the key performance Indicators for implementation will be	Links to separate document or a reference.			
Emissions from developments and buildings	2.1	Ensuring emissions from construction are minimised by developers fully complying with Southwark’s Technical Guidance for Demolition and Construction	Chief Executive Development Control and Environment & Leisure - Regulatory Services – Environmental Protection Team	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2 - 3	Ongoing	All major sites to submit an Air Quality Assessment in accordance the current version of the GLA’s guidance “the Control of Dust and Emissions during Construction and Demolition Supplementary Planning Guidance” Review Highways standard contract terms in 2025-2026 to address idling at road works and generator types. All applications met the requirements of the technical guide.	Southwark’s Technical Guidance for Demolition and Construction can be found at https://www.southwark.gov.uk/assets/attach/3011/Technical-Guidance-for-Demolition-Construction.pdf	Planning policy on Air Quality EPT guidance and GLA guidance on air quality	EPT response to consultation on Planning Applications Planning Officer report to Planning Committee	EPT Officers Planning Officers Developers Air Quality consultants Planning Committee Planning Inspectorate
	2.2	All Major development sites to submit a demolition management (DMP) and / or Construction Management Plan (CMP)	Chief Executive Development Control and Environment & Leisure - Regulatory Services – Environmental Protection Team	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2 - 3	Ongoing	Annual reporting of number of Demolition Management Plans and Construction Management Plans that have been reviewed KPI – Number of reviews of Demolition Management Plans and Construction Management Plans		EPT review of D/CMP	Planning consent prior approval condition. EPT consultation on discharge of condition	EPT Officers Planning Officers Developers
	2.3	Ensuring all medium and high risk sites have real – time PM monitoring on site and that the information from this monitoring is easily accessible to the public	Chief Executive Development Control and Environment & Leisure - Regulatory Services – Environmental Protection Team	£ - ££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2 - 3	Ongoing	Annual reporting of number of sites that are reporting site monitoring Number of construction sites with site monitoring. Review technical guide to ensure appropriate mitigation and dust management responses.	Create a business case for a construction monitoring officer.	Information and data publication standards	Secured through compliance with D/CMP planning condition OR secured by s.106 agreement.	Planning Enforcement Officers OR Development Control Officers s.106 compliance

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Processes	People
Emissions from developments and buildings	2.4	Ensuring emissions from construction are minimised by developers by submitting a transport logistics assessment in accordance with Transport for London's TfL) Construction Logistics guidance	Chief Executive - Development Control	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2 - 3	Ongoing	All major sites to submit a Transport Logistics in accordance the current version of the TfL guidance Control of construction vehicles delivery times to reduce impact on local communities congestion and air quality KPI - 100% of all major sites	The TfL's Construction Logistics guidance can be found at www.tfl.gov LBS revised Movement plan	All relevant technical guidance		TfL
	2.5	Produce a construction code of practice for minor sites to be used as informative	Chief Executive Development Control and Environment & Leisure - Regulatory Services – Environmental Protection Team	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2 - 3		Information to be secured by either planning conditions or s106 agreements KPI - annual reporting of informative issued	The GLA's "The Control of Dust and Emissions during Construction and Demolition Supplementary planning guidance can be found at www.gla.gov.uk	EPT review of submitted Air Quality Assessment	Planning consent prior approval condition. EPT consultation on discharge of condition	EPT Officers Planning Officers Developers
	2.6	Minimise emissions from construction by ensuring all construction site Non-Road Mobile Machinery (NRMM) comply with the London Environment Strategy Policy 4.2.3a	Environment & Leisure - Regulatory Services – Environmental Protection Team and Mayor's Air Quality Fund South London NRMM Enforcement Project – Lead authority – currently L.B. Merton	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 3	Ongoing	All relevant Planning applications to include the appropriate NRMM condition KPI - 100% of all relevant applications Southwark to maintain an updated list of construction sites on a quarterly basis KPI – Four lists each year Southwark to subscribe to the Mayor's Air Quality Fund South London NRMM Enforcement Project KPI – Annual subscription paid Mayor's Air Quality Fund South London NRMM Enforcement Project to submit regular reports to Southwark KPI – Four reports each year Southwark's Environment Protection Team to investigate all non-compliant sites as reported by the NRMM Lead Authority	London Borough of Merton are contracted to undertake construction site NRMM inspection visits as part of a pan London project.	NRMM Regulations	Construction site inspections	NRMM Lead Authority EPT Officers

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Processes	People
							KPI – All non – compliant sites investigated				
Emissions from developments and buildings	2.7	Ensuring emissions from construction and demolition sites are minimised by developers to comply with the London Environment Strategy Policy 4.2.3	Chief Executive Development Control and Environment & Leisure - Regulatory Services – Environmental Protection Team	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2 - 3	Ongoing	All major sites to submit an Air Quality Assessment in accordance the current version of the GLA's The Control of dust and emissions during Construction and Demolition Supplementary Planning Guidance" KPI - 100% of all relevant applications KPI – Annual reporting of the number of NRMM conditions / s106 interventions	The GLA's "The Control of Dust and Emissions during Construction and Demolition Supplementary planning guidance can be found at www.gla.gov.uk Create a business case for a construction monitoring officer.	EPT review of submitted Air Quality Assessment	Planning consent prior approval condition. EPT consultation on discharge of condition	EPT Officers Planning Officers Developers
	2.8	Continue to control emissions from permitted processes via inspection and enforcement	Environment & Leisure - Regulatory Services – Environmental Protection Team	£	Environment & Leisure - Regulatory Services – Environmental Protection Team 1	Ongoing	Annual reporting of number of inspections in accordance with LAPPC risk regime and number of enforcement notices. KPI – Report to be submitted to Defra by the due date		All relevant technical guidance	Processing applications. Issuing permits. Inspection and enforcement	EPT Officers
	2.9	Enforce Air Quality Neutral Policy and Air Quality Positive Policy	Chief Executive Development Control and Environment & Leisure - Regulatory Services – Environmental Protection Team	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 3	Ongoing	All Planning applications with boilers or other heat sources to be given a standard planning condition which requires pre-occupation information or testing reports to be submitted to Planning KPI - 100% of all relevant applications		All relevant technical guidance	Review of combustion source information by EPT in consultation with climate change team	Planning Policy team Climate change team EPT Officers

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Processes	People
	2.10	Master planning and redevelopment areas aligned with the Air Quality Positive and Healthy Streets approach	Chief Executive – Planning Policy Chief Executive - Development Control Environment & Leisure - Highways	£ - £££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 3		KPI Complete review of Southwark Plan in the context of air quality (consistent with Climate Action Plan A.1.iii) KPI – Respond to the Movement Plan consultation to include improvements to air quality in 2022 - 2023	Southwark Plan Policy 65 Movement Plan			EPT Planning Policy Teams, Development Control Highways
Emissions from developments and buildings	2.11	Promoting and delivering energy efficiency and energy supply retrofit projects in all buildings through Energy for Londoners (EFL) retrofit programmes such as RE:FIT, RE;NEW , DEEP and through Borough carbon offset funds. (GLA mandatory action)	Housing and Modernisation Technical services	£ - £££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 3	Ongoing	KPI – Implement improvements to Council Medium combustion plant to reduce emissions and improve monitoring by 2025 KPI – Retrofit to improve energy efficiency at five libraries and three children centres by 2024	See Climate Plan D.1.iii, D.1.iv, D.1.vii, D.2.ix, & E.2 Additional planning enforcement resource to ensure developments implement energy and air quality requirements as planned.	Technical survey of council owned medium sized combustion plant	Contract procurement	EPT Officers Housing maintenance officers Contractor GLA
	2.12	Southwark’s Smoke Control Area is fully promoted and enforced (GLA mandatory action)	Chief Executive - Development Control – Environmental Protection Team and Environment & Leisure - Regulatory Services – Noise & Nuisance Team	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1		Enforce the requirements of the Clean Air Act in the Borough KPI - 100% of service requests investigated Enforce the requirements of the Environment Act in the Borough to control the sale of unauthorised solid fuels. KPI – At least one campaign per year. KPI – When appropriate formal action to be taken in 100% of cases. Publicise on a regular basis that whole of Southwark is a Smoke Control Zone KPI – At least one campaign per year.	Southwark’s Smoke Control Area can be found at https://www.southwark.gov.uk/assets/attach/1468/smoke-control-order-2009.pdf	All relevant technical guidance	Service requests	EPT officers Noise and Nuisances team

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/ concentrations benefit	Timescale for implementati on	Outputs, Targets and KPIs	Further information	Technical	Processes	People
							Attend the GLA Wood Burning Working Group and contribute to the outcomes of the group.				
	2.13	Ensuring adequate, appropriate and well located green space and infrastructure is included in new and existing developments	Chief Executive Development Control	£ to £££	No emissions reductions, but there is a small reduction in concentration near green infrastructure. 1		<p>KPI - The number of new green infrastructure granted through the planning process in the year</p> <p>KPI - The number of new green infrastructure implemented in the year</p>		All relevant technical guidance	Planning applications and approvals	Development control officers Planning committee
Emissions from developments and buildings	2.14	Reducing emissions from all Combustion Plant	Chief Executive Development Control and Environment & Leisure - Regulatory Services – Environmental Protection Team	£ to £££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 3	Ongoing	<p>All developments to comply with the London Plan heating hierarchy and that air quality and carbon emissions are fully assessed in planning applications</p> <p>KPI - 100% of all relevant applications</p> <p>KPI – Annual reporting of the number of conditions / s106 interventions</p> <p>KPI – Number of ultra-low NO_x boilers / heat pumps installed in the year</p>		EPT review of relevant planning application documents, in consultation with Climate Change team	Planning applications and approvals	Development control EPT Officers Climate Change team Applicants Air Quality consultants
	2.15	To reduce emissions of Particulate Matter from commercial kitchens especially PM _{2.5}	Environment and Leisure Environmental Protection Team	£	Reduction in emissions of Particulate Matter 1 - 2	When resources are available	Devise and complete a pilot project to produce technical guidance for kitchen operators to reduce emissions of PM _{2.5} .	Project is likely to establish levels of pollution in Southwark from kitchen outlets.	Guidance on exhaust flue gas filtration and smoke control	Capital bids Project design and procurement Member briefing	EPT officers Future project partners Commercial catering operation

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/ concentrations benefit	Timescale for implementati on	Outputs, Targets and KPIs	Further information	Technical	Processes	People
	2.16	Embed air quality in designs of estates	Chief Executive – Regeneration Team and Chief Executive – Development Control Chief Executive – Planning Policy	£ - £££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 3	2022 - 2027	KPI - Number of Design Briefs included air quality principles produced KPI - Number of Air Quality Positive Estates built in the year	Walking and cycling design criteria EVCP Charging	All relevant technical guidance	Writing design briefs Procurement	Development Control Planning Policy

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/ concentrations benefit	Timescale for implementati on	Outputs, Targets and KPIs	Further information	Technical	Processes	People
Emissions from developments and buildings	2.17	Reducing emissions from Combustion Plant in heating networks	Emissions from developments and buildings	£ to £££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 3	Ongoing	<p>Officers to regularly update the borough – level energy masterplan and identify opportunities for new heat networks as well as extending or inter-connecting existing networks to support cleaner, lower carbon heat supply.</p> <p>Installation of heat pumps on site in three locations - Consort, Newington & Wyndham</p> <p>KPI – Confirmation of the completion of all 3 sites</p> <p>KPI – Annual reporting of the number of conditions / s106 interventions</p> <p>Complete feasibility studies (with input from residents) which will allow every estate in the borough to design plans to move away from gas as an energy source</p> <p>KPI - Procurement of ten detailed feasibility studies to set the scope for upcoming major decarbonisation works at high priority estates. Southwark will be consulting with residents as part of the works process.</p> <p>Identifying combustion sources where cost effective carbon reduction with substantial air quality benefits</p> <p>KPI – Annual reporting of energy use in Council owned buildings.</p>	<p>Climate Action Plan E.2.ii</p> <p>Climate Action Plan E.2.iii</p>	<p>Development Control review of Energy Masterplan, in consultation with Climate Change team</p>	<p>Internal review</p>	<p>Development control</p> <p>Climate Change team</p>

Action Table 3 Public health and awareness raising air quality action

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/ concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Process	People
	Action Reference Number	Description of action to be implemented	Name of Council Department with responsibility for action implementation	Anticipated cost of action implementation £ = 0 – 50k ££ = 50 – 100k £££ = >100k	High = 3 Medium = 2 Low = 1	Proposed timescale for implementation	What the key performance Indicators for implementation will be	Links to separate document or a reference.			
Public health and awareness raising	3.1	Public Health having shared responsibility for borough air quality issues	Environment & Leisure - Public Health Team	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1		<p>Director of Public Health to chair Air Quality Steering Group</p> <p>KPI – Annual progress report</p> <p>The Public Health Team actively involved with Air Quality Projects</p> <p>KPI – Annual progress report</p> <p>Biennial review of Southwark’s Joint Strategic Needs Assessment (Air Quality) (‘Air Quality JSNA’).</p> <p>KPI – Annual progress report</p> <p>Air Quality is a Health and Wellbeing Board priority</p> <p>KPI –Annual report to the Health and Wellbeing Board</p>	Southwark’s Air Quality JNSA can be found at www.southwark.gov.uk		EPT – public health internal consultation / collaboration on air quality projects JSNA review	Director of Public Health Public Health Team EPT Health and Wellbeing Board
	3.2	Work with the Public Health Team to strengthen engagement with Southwark Clinical Commissioning Group and GP surgeries	Environment & Leisure - Public Health Team & Environmental Protection Team	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide by undertaking the measures in this Action Plan	Ongoing	KPI - Report annually on the progress				Southwark CCG Public Health Team EPT

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/ concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Process	People
Public health and awareness raising	3.3	Engagement on air quality issues with Business through the Borough's Business Improvement Districts.	Chief Executive - Economic Development in partnership with the Borough's Business Improvement Districts. Environment & Leisure Regulatory Services – Environmental Protection Team.	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1	Ongoing	KPI – Number of businesses actively engaged on air quality KPI – Number of businesses acting to reduce emissions	Staffing resource dependant.			Economic Development Team EPT BIDs
	3.4	Southwark supports Airtex and promotes and shares the GLA high pollution alert services (GLA mandatory action)	Environment & Leisure - Public Health Team Environment & Leisure - Regulatory Services – Environmental Protection Team	£	No emissions / concentrations benefits but helps avoid or mitigate the effects of high exposure	Ongoing	Southwark annual subscription to the Airtex service operated by Cambridge Environmental Research Consultants (CERC) To promote the Airtex service through the GP's and other health providers KPI - Number of Airtex subscribers in the Borough. To cascade the London Mayors High and very High pollution alerts KPI –100% High and Very High alerts cascaded.		Air Quality Monitoring Stations London Air Quality Network Airtex alerts system GLA alerts system	Promotion of airText Operation of air quality alerts cascade system to Schools, Care Homes, and GP Surgeries	GLA CERC EPT Schools Care Homes GP Surgeries
	3.5	Improve the uptake of Air Quality information to vulnerable persons in the Borough (GLA mandatory action)	Environment & Leisure - Regulatory Services – Environmental Protection Team Children and Adult Services - Public Health Team	££	None	2023 Ongoing	Implementation of recommendations in the Air Alert Discovery project KPI - Annual Communication Plan and campaign of relevant air quality improvement topics		All relevant technical documents	Commission or deliver in house an air quality information campaign	EPT Communications team

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/ concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Process	People
Public health and awareness raising	3.6	Provide air quality information leaflets at health care facilities, libraries, pharmacies and other frequently used facilities (GLA mandatory action)	Children and Adult Services - Public Health Team Environment & Leisure - Regulatory Services – Environmental Protection Team	£ - ££	None	2023	KPI - Annual progress reports	Considering including indoor air quality information following report from Chris Whitty.		EPT – public health internal consultation / collaboration on air quality projects	EPT Public Health team Relevant partners and stakeholders working in this area, e.g. Impact on Urban Health charity
	3.7	Promote School Air Quality Audits to all schools in the Borough (GLA mandatory action)	Environment & Leisure - Regulatory Services – Environmental Protection Team Environment & Leisure – Sustainable Travel	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide	Ongoing	To promote the London Mayor’s School Pollution Helpdesk and GAP’s online ‘school air quality audit’ and other promotion materials to all schools. A school audit evaluation report will be produced.	STARs program encourage use of sustainable travel, discouraging car use. Southwark has completed a schools audit programme.	Schools’ air quality audit template	Audit Procurement	EPT Education External air quality auditors
	3.8	Reducing pollution in and around schools (GLA mandatory action)	Environment & Leisure Highways Environment & Leisure - Regulatory Services – Environmental Protection Team	£ - £££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide	Ongoing	Implementation of recommendations from the Southwark Schools’ Air Quality Audits At least one recommendation from each air quality audit is implemented annually. Idling signage will be offered to all schools. Develop priority list for new schools streets to be put in place. Develop a list of schools that would benefit from green screens. KPI - Implement 9 new school streets before 2026.	Council will implement a hierarchy of measures in order to reduce emissions or reduce exposure to poor air quality around schools.	School audit reports		EPT Education Highways

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Process	People
Public health and awareness raising	3.9	Encourage schools to join the TfL STARS accredited travel planning programmes	Environment & Leisure – Sustainable Travel Team	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1	Ongoing	<p>Proportion of schools in Southwark with STARS Bronze, Accreditation each year</p> <p>Proportion of schools in Southwark with STARS Silver Accreditation each year</p> <p>Proportion of schools in Southwark with STARS Gold Accreditation each year</p> <p>The total number of schools in Southwark is 94</p>		TfL guidance		EPT Highways Sustainable travel team Education TfL
	3.10	Assess the feasibility of Street Space measures around educational and health premises	Environment & Leisure - Highways	££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2	2022	<p>KPI - Annual progress report</p> <p>Implement an additional 3 school streets every year.</p> <p>Review of all schools to determine any potential measures to reduce traffic near schools to be undertaken completed before 2024.</p>	Climate Action Plan G.4.iv			
	3.11	To create school super zones in the Borough	Children and Adult Services - Public Health Team	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 2		<p>Annual progress report</p> <p>KPI – Number of School Super zones in the Borough</p>				Public Health
	3.12	To create school walking maps for all schools in the Borough	Environment & Leisure – Sustainable Travel Team	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 2	2022 - 2027	<p>Annual progress report</p> <p>KPI – Number of School walking maps in the Borough</p>			Capital bid	Highways sustainable travel team
	3.13	Raising awareness about indoor air quality	Environment & Leisure – Environment Protection Team	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1	When funding is available	<p>To produce a toolkit on domestic and commercial indoor air pollution and how to reduce personal exposure</p> <p>KPI – Indoor Air Quality produced</p>	Indoor air quality projects are being undertaken in partnership with Impact on Urban Health.		Capital bid	

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/ concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Process	People
Public health and awareness raising	3.14	<p>Review the progress of recommendation 13 of the Chief Medical Officers report 2017</p> <p>a) Southwark Clinical Commissioning Group (CCG) Groups should analyse local air quality monitoring data for breaches of air pollution standards, and publish these alongside the local hospital data for impacts on admissions for respiratory and cardiovascular disease and</p> <p>b) Public Health England should aggregate and analyse progress annually for a national public report to NHS England</p>	Children and Adult Services - Public Health Team	£	No emissions / concentrations benefits but critical in terms of understanding emissions	When resources are available	<p>KPI - Annual progress report</p> <p>Work with NHS to develop a method to analyse air quality and correlation with admission and outpatient presentation data for air pollution related conditions</p>				<p>Southwark CCG</p> <p>Public Health team</p> <p>Public Health England</p>

Action Table 4 Delivery servicing and freight air quality action plan

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/ concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Process	People
	Action Reference Number	Description of action to be implemented	Name of Council Department with responsibility for action implementation	Anticipated cost of action implementation £ = 0 – 50k ££ = 50 – 100k £££ = >100k	High = 3 Medium = 2 Low = 1	Proposed timescale for implementation	What the key performance Indicators for implementation will be	Links to separate document or a reference.			
Delivery servicing and freight	4.1	Develop an AQAP guidance to support procurements and contracts that impacts on air quality.	Environment & Leisure – Environment Protection Team All Departments	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 3	Ongoing	<p>Council approach to consider impacts of air quality in Southwark when procuring goods and services.</p> <p>Develop guidance for all departments to consider the impact of their procurement on air quality in Southwark.</p> <p>Air quality considerations included within the specification or terms of procurement or contracts as most appropriate.</p> <p>Develop a robust monitoring process to review effectiveness of air quality guidance on the procurement process</p> <p>KPI – Guidance developed</p> <p>Report on the number of contracts with air quality criteria as a specification of the contract on an annual basis</p> <p>Review TfL report findings into fleet vehicle speed limiters and consider inclusion in Fleet procurement policy.</p>	AQAP and Climate Action Plan will be linked to within the council's Fairer Future Procurement Framework (FFPF). Procurement of Council vehicles will comply with Fleet Policy.	Air Quality Procurement guidance		EPT Contract Officers
	4.2	Installing bookable permit only loading bays at pilot projects.	Environment and Leisure - Highways	££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2 -3	2023 - 2027	<p>Annual progress reporting</p> <p>KPI – Number of bookable permit holder only Loading Bays in the Borough</p>	Delivery servicing and freight, subject to Lead Member approval		Trial in Walworth LEN and Bankside (Kerb dock)	EPT Parking services Highways External contractors

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Process	People
Delivery servicing and freight	4.3	Explore with the Port of London Authority (PLA) the methods of control of shipping emissions and use of shipping to mitigate land based emissions	Environment & Leisure – Environment Protection Team	£££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2 -3	2023 - 2027	Annual progress reporting. KPI – Reduction in NOx, PM₁₀ & PM_{2.5} emissions Review riverside hotspot indicated by LAEI and consider further actions. Submit consultation response on any future revision of PLA Air Quality Strategy.	The PLA has identified methods of control of shipping emissions in the PLA's Air Quality Strategy (2020)			EPT PLA
	4.4	Support and engagement with river and rail movement projects.	Environment & Leisure – Environment Protection Team Environment and Leisure - Highways	£££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2 -3	2023 - 2027	Participation in three projects associated with river freight.	Projects may also include rail freight. Explore greater use of the Thames for freight and delivering into the borough, minimising impact of polluting vehicles on roads Climate Action Plan 1.2.ii		CRP projects CEVA IoUH	EPT Highways External contractors

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Process	People
Delivery servicing and freight	4.5	Reducing emissions from delivering to local businesses and residents	Environment and Leisure - Highways	£££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 3	Ongoing	<p>Percentage increase in Ultra Low emission Vehicles in Southwark.</p> <p>Monitor survey information from cargo bikes e.g. bikes from bikes for business.</p> <p>Support click and collect projects.</p> <p>Use connections to businesses and markets to facilitate shorter supply and distribution chains</p> <p>KPI - Work with the Business Improvement Districts to understand best practice in supporting local supply chains and how this can be rolled out to other areas of the borough Climate Action Plan S.3.i</p> <p>Develop and deliver a Sustainable Freight and Last Mile Delivery Hubs Plan by 2026 that prioritises areas of greatest need and potential Climate Action Plan S.3.ii</p> <p>Support businesses to switch to zero pollution delivery vehicles, working with them to shift more local deliveries to electric cargo bikes – Climate Action Plan S.3.iii</p> <p>Support and engage in all available projects that increase the use of cargo bikes and e-cargo vehicles.</p> <p>KPI - Number of projects that supported.</p>	Information on vehicles will be gathered using anonymised vehicle registration details.			Highways BIDs Climate Change Climate Change Climate Change

Action Table 5 Borough fleet actions air quality action plan

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Process	People
	Action Reference Number	Description of action to be implemented	Name of Council Department with responsibility for action implementation	Anticipated cost of action implementation £ = 0 – 50k ££ = 50 – 100k £££ = >100k	High = 3 Medium = 2 Low = 1	Proposed timescale for implementation	What the key performance Indicators for implementation will be	Links to separate document or a reference.			
Borough fleet actions	5.1	Reducing emissions from Council Fleets (GLA mandatory action)	Environment & Leisure – Fleet Services	£££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2 - 3	Ongoing	<p>Smarter Driver training for all fleet drivers</p> <p>KPI All new drivers to receive training within six months of starting in Southwark</p> <p>Monitor the mileage and Fuel use reports passed to Business Unit Managers</p> <p>KPI – Reduce fossil fuel usage by 10% per year</p> <p>Every commercial vehicle procured to undergo full sustainability evaluation Climate Action Plan K.3.i</p> <p>KPI - Work towards the Southwark's commercial fleet being tailpipe emission free by 2030 (subject to operational requirements)</p> <p>KPI – Proportion of vehicles within the Fleet that are electric, hydrogen, or hybrid.</p> <p>Fleet Strategy to promote sustainable travel.</p> <p>KPI – Monitor and report on the EVCP at Tooley Street and Queens Road monthly</p> <p>Review of services to determine if activities can be replaced with e-bike or cargo bike.</p> <p>Identify new locations as part of EV strategy Climate Action Plan K.3.ii</p> <p>Design and implement a strategic plan to trial low emissions vehicles into the LGV/HGV fleet (including waste and highways) Climate Action Plan K.3.iii</p>	Fleet Strategy to be published			Fleet Services

Action Table 6 Localised solutions air quality action plan

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Process	People
	Action Reference Number	Description of action to be implemented	Name of Council Department with responsibility for action implementation	Anticipated cost of action implementation £ = 0 – 50k ££ = 50 – 100k £££ = >100k	High = 3 Medium = 2 Low = 1	Proposed timescale for implementation	What the key performance Indicators for implementation will be	Links to separate document or a reference.			
Localised solutions	6.1	Green infrastructure	Chief Executive – Regeneration Chief Executive – Development Control Environment & Leisure – Highways	£ - £££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide	Ongoing	Monitoring and reporting of the impact of the Green Infrastructure projects. KPI - Number of Green Infrastructure projects implemented by Southwark during the year. Identify potential green corridors between key green spaces/Sites of Importance for Nature Conservation - Climate Action Plan V.2.i KPI - Review definition of green corridors within the early review of New Southwark Plan and consult on including within formal planning policy	In accordance with Right tree right place principles. Pollarding of trees in accordance with the maintenance programme in the Tree Strategy			
	6.2	Street Space Measures	Environment & Leisure Climate Change Environment & Leisure – Highways Environment & Leisure – Regulatory Services – Environmental Protection Team	£££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 3	To be completed by December 2022 From January 2023	Complete the MAQF Low Emission Neighbouring in the Walworth Area Explore the opportunities to introduce further Streetspace Measures in Southwark when funding is available. KPI: Review the 10 Streetspace Measures over the next 18 months Climate action Plan F.1.iv	Movement Plan consultation in Autumn 2022.		Evaluation report	EPT GLA Highways
	6.3	Explore the feasibility with the Environment Agency to stop issuing D7 waste exemption: burning waste in the open registration.	Environment & Leisure – Regulatory Services – Environmental Protection Team	£	Reduction in emissions of Particulate Matter 1 -2	From January 2022	KPI - Annual Reporting on progress				

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Process	People
Localised solutions	6.4	To lobby the Central and the GLA for policy changes to improve air quality in Southwark	Chief Executive – External Affairs	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 3	Ongoing	KPI - Annual Reporting on progress Create evidence base for case to TfL for reducing emissions from buses. To include mapping all major traffic derived pollution areas including bus stops/interchanges.	Collaborate and lobby transport operators including Transport for London to make bus journeys quicker, more reliable and zero emission - Climate Action Plan H.1.i: and Use our position as a council and through regional bodies that Southwark sits on to lobby the Mayor of London to decarbonise bus and rail networks - - Climate Action Plan H.1.iv			
	6.5	Apply for Mayor's Air Quality Funds and Defra Air Quality Grant to deliver air quality projects in Southwark	All	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 3	Ongoing	KPI - Annual Reporting on progress and project reports.				EPT
	6.6	To align the measures in Southwark's Climate Strategy and this action plan	Environment & Leisure Climate Change and Environment & Leisure – Regulatory Services – Environmental Protection Team	£ - £££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 3	Ongoing	KPI - Alignment of Councils strategies and Plans	Climate Action Plan Corporate delivery Plan Movement Plan Fleet Strategy New Southwark Plan		Review of each other's strategies and action plans	EPT Climate Change Team

Action Table 7 Cleaner transport air quality action plan

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Process	People
	Action Reference Number	Description of action to be implemented	Name of Council Department with responsibility for action implementation	Anticipated cost of action implementation £ = 0 – 50k ££ = 50 – 100k £££ = >100k	High = 3 Medium = 2 Low = 1	Proposed timescale for implementation	What the key performance Indicators for implementation will be	Links to separate document or a reference.			
Cleaner transport	7.1	Transport and air quality policies and projects are integrated	Environment & Leisure – Highways Environment & Leisure – Regulatory Services – Environmental Protection Team	£ - £££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 - 3	Ongoing	KPI - The number of Healthy Streets projects delivered during the year. KPI - The number of walking and cycling infrastructure projects delivered during the year.	Corporate Delivery Plan			EPT Highways
	7.2	Discouraging unnecessary idling by taxis and other vehicles	Environment & Leisure – Parking	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1	Ongoing	KPI - Percentage of drivers complying with requests from Civil Enforcements Officers to switch the vehicle’s engine off. KPI - Respond to consultations on Public Carriage Vehicles. KPI - Lobby Government on strengthening idling legislation.	Enforcement section in the Movement Plan			Parking enforcement
	7.3	Regular temporary car free days and pedestrianisation schemes in line with proposal 4.2.1a of the London Environment Strategy (GLA mandatory action)	Environment & Leisure - Sustainable Travel	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide in the local area of the event 1		KPI - Undertake 8 car free events. KPI - Number of new controlled pedestrian crossings (annual target) – 5 per year KPI - Number of level access/dropped kerb uncontrolled pedestrian crossings installed (annual target)				EPT Sustainable travel team
	7.4	Support the London Mayor to extend the Ultra-Low Emission Zone to the current LEZ boundary Review Mayor proposals for Road Charging	Environment & Leisure – Highways	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 1 -3	2024	KPI - Support implementation of ULEZ extension. KPI - Respond to consultations on Road charging.	Recent consultation included questions on road charging.		Response to ULEZ consultations	Highways

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Process	People
Cleaner transport	7.5	Using parking policy to reduce pollution emissions (GLA mandatory action)	Environment & Leisure – Highways	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2 - 3	2025	Implement borough-wide controlled Parking regime KPI Coverage of 94% of the Borough by 2025 Climate Action Plan G.4.iii	Alignment with Climate Action Plan, subject to approval of Council Parking Policy 2022.			
	7.6	Installation of Ultra – low emission Vehicle infrastructure charging points (GLA mandatory action)	Environment & Leisure – Highways Environment & Leisure – Trading Services	£££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2 - 3	Ongoing	KPI - Percentage of electric vehicles registered in Southwark KPI – Install a further 1000 Electric Vehicle charging points in Southwark by 2026. KPI - Implement a borough-wide strategy for EV infrastructure by 2023	Infrastructure strategy being discussed. Need to identify lead team. Avoiding in conflict in reallocation of road space			
	7.7	Provision of infrastructure to support walking and cycling (GLA mandatory action)	Environment & Leisure - Highways Environment & Leisure – Climate Change	£ to £££	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2 - 3	Ongoing	KPI - Increase signed cycle coverage by 7km. KPI - 1000 secure cycle hangers installed across Southwark by 2026. Climate Action Plan F.1.i KPI – Install an additional 30 cycle stands per year. KPI – At least 1 kilometre of new segregated cycle lane installed every year. Climate Action Plan F.1.ii KPI - Number of new cycle-hire docking stations in the Borough Improve access to walking in the borough and actively promote this as a zero-carbon method of transport Deliver the Equal Pavements Pledge, working with older people, those with disabilities and limited mobility to make sure Southwark’s streets are accessible for everyone KPI - Number of Equal Pavement Pledge projects associated with improving walking. Climate Action Plan F.1.vi: Provide free cycle training for residents, including for young people, those with disabilities and cargo bike training Climate Action Plan F.1.iv	Climate Fund Transport for all charity - Equal pavement pledge. Review of existing Cycling strategy to occurring 2023 and update to new terminology, revised routes and new proposals in conjunction with TfL and cycling groups. Ongoing projects -			Highways

Action category	Action ID	Action name and description	Responsibility	Cost	Expected emissions/ concentrations benefit	Timescale for implementation	Outputs, Targets and KPIs	Further information	Technical	Process	People
Cleaner transport	7.8	Review ability for bus lanes on borough roads to be used by non-emergency ambulances for patient transport.	Environment & Leisure – Highways	£	Reduction in emissions of Particulate Matter and Nitrogen Dioxide 2 - 3	2023	KPI - Annual report of progress				

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APPENDIX A - REASONS FOR NOT PURSUING ACTION PLAN MEASURES

Action category	Action description	Reason action is not being pursued (including Stakeholder views)
e.g. Localised solutions	e.g. Low Emission Neighbourhoods	e.g. we have been unable to obtain funding, although we have developed an outline plan for LEN in xx location and will try to obtain funding for delivery of this over the coming year

Table G Action Plan Measures Not Pursued and the Reasons for that Decision – *to be discussed with the GLA prior to finalisation*

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If you have any comments on this AQAP please send them to Southwark Environmental Protection at:

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