



Air Quality Strategy & Action Plan

April 2017

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Foreword

The impact of poor air quality on human health is significant and beyond doubt. Local air quality is a public health priority for Southwark and we have performance indicators regarding improving air quality listed in the current council plan. We are fully committed to doing all we can to encourage our services, local businesses and residents to consider air quality in the choices they make and everything they do.

I am very pleased to endorse to you Southwark's revised and improved Air Quality Strategy and Action Plan 2017 – 2022. Our last Air Quality Action Plan, which covered the period 2012 - 2017, and the many successful air quality improvement projects Southwark have initiated over and above that, have really helped to improve local air quality, but there is much more for us to do. Major previous successes have included:

- Southwark's cycling strategy was adopted by Cabinet in June 2015, which sets out a clear vision for cycling in the borough. We want cycling to be for the many, not the few, with people from all over Southwark of all ages, abilities and backgrounds feeling able to cycle safely. We are now well into a 5 year, £30m investment programme of cycling and walking improvements
- We have run integrated cycling and air quality campaigns in the summer and campaigns to discourage the burning of wood and coal in the winter. We have also been into many schools delivering free citizen science educational programmes on air quality and provided bike-ability classes
- We have improved the information on air quality on our website. It now includes lots of information on local air quality and ideas that residents can take up to help us all to a future with better, cleaner air
- As new council fleet vehicles are procured emission considerations are at the forefront in the selection process ensuring we select the least polluting fuel type available for new council vehicles
- We use the 'Right Place Right Tree' approach to increase the number of trees in existing open space and on new developments and to create more green links. We have a £6m investment programme to improve existing parks and green spaces
- We oversaw the installation of one of the largest solar power photovoltaic arrays in the capital on the roof of the Old Kent Road Integrated Waste Management Facility (IWMF). The cells cover the roof, a space equivalent to four football pitches, generating enough power for 220 homes giving a Carbon saving equivalent to taking Southwark's entire waste collection fleet off the road for six months

But we can always do more. This revised Air Quality Action Plan lists 113 actions that Southwark will undertake under the new London Local Air Quality Management Framework that was

announced by the GLA in 2016. It gives clear actions and anticipated targets for delivery that we know will be deliverable. These actions will be the minimum that Southwark will deliver. We anticipate that in the fast moving arena of air quality, new research, 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 come to light.

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 "Ian Wingfield".

Councillor Ian Wingfield
Cabinet Member for Environment & Public Realm

The following Officers of the Council endorse this document.



Professor Kevin Fenton
Director of Public Health & Wellbeing



Simon Bevan
Director of Planning

1 - Introduction

As part of the UK National Air Quality Strategy, the Environment Act 1995 requires Local Authorities to declare Air Quality Management Areas at locations where air quality does not meet the objective limits for certain pollutants. Where an Air Quality Management Area has been declared local authorities must have a consulted and approved Air Quality Action Plan to reduce the relevant atmospheric pollutant/s within that area so, that at some point in the future, the area will meet the national air quality objective limits. For details of the current national air quality objective limits see Appendix 1.

Since the publication of the 2002 Southwark Air Quality Strategy and Air Quality Action Plan there have been a number of changes in both national and regional air quality policy. This document outlines the revised Air Quality Strategy and Action Plan for Southwark, detailing a range of aims and objectives that we will seek to achieve in the period 2017 – 2022.

Sources of atmospheric pollution in Southwark Council

The main atmospheric pollutants of concern in Southwark are Nitrogen Dioxide (NO₂) and Particulate Matter (PM) with fractions PM₁₀ (breathable) & PM_{2.5} (able to pass into blood stream). The main source of both pollutants locally is traffic emissions. Large scale combustion plant, construction sites and domestic heating also contribute.

The Southwark area is not currently meeting legal limits for all pollutants regulated by EU legislation. NO₂ is a serious challenge as it often exceeds the objective limits, especially in the area inside the inner ring road and along main road corridors. In 2013 45% of the population of Southwark was exposed to levels of NO₂ above the annual average objective limit (LAEI, 2013). It is known that there is no 'safe' limit for PM, so even where the objective limits for PM fractions are not exceeded, a reduction in particulates would further protect human health. For information on the health impacts of atmospheric pollutants see Appendix 2.

Due to the NO₂ objective limit being exceeded in a large portion of the borough and the PM objective limit being exceeded in a small number of locations, Southwark declared an Air Quality Management Area.

The following information can be found in Appendices 3 & 4 attached to this document:

- Map of the current Southwark Air Quality Management Area,
- Map of the modelled emissions of NO₂
- Map of the modelled emissions of Particulates (PM₁₀ & PM_{2.5}), and
- Data on the pollutant source apportionment (i.e. what are the sources of the emissions to air)

The health impact of atmospheric pollution

Recent analysis by the Institute for Health Metrics & Evaluation estimates that air pollution is ranked as the 10th largest risk factor for mortality and ill-health in England. Recent studies have calculated that poor air quality affects the health of approximately 9,500 Londoners every year.

There is a strong body of evidence which shows that short term exposure to high levels of air pollution has a range of adverse health effects. These can range from exacerbation of respiratory conditions such as asthma and chronic respiratory disease, through to an increase in emergency admissions to hospital. Poor air quality disproportionately affects the health outcomes of the very young, the elderly, the ill and the poor.

While short term exposure to air pollution is known to adversely affect health, the relative risk associated with long term exposure is much greater, contributing to the initiation, progression and exacerbation of disease. It is estimated that the average reduction in UK life expectancy associated with air pollution is 6 months and is illustrated by an increasing number of deaths from cardiovascular and respiratory conditions and lung cancer. Public Health England suggest that 7% of adult deaths in Southwark may be attributable to particulate air pollution (measured as fine particulate matter PM_{2.5}). This equates to around 90 deaths per year in the borough.

The equalities impact of atmospheric pollution

All members of the community within Southwark's Air Quality Management Area are affected by poor air quality. A report by the Environment Agency found that areas of the worst exposure to poor air quality generally correlated with areas of deprivation.

There are a number of localities within Southwark that fall within the Government's definition of being an area of deprivation, (Source – Official National Statistics) but, in London there is a complex link between air quality and inequality. In general, more deprived areas are likely to experience higher levels of pollution but there is considerable local variation. The link between deprivation and poor air quality is stronger in outer London. In inner London there are high levels of atmospheric pollution across the board affecting affluent and deprived communities alike.

Fine particles (PM_{2.5}) have the greatest impact on health as they reach the bloodstream, and thus the rest of the body, via the lungs. Young children, those with compromised health and the elderly are the most susceptible to the negative health impacts of poor air quality.

The environmental impact of atmospheric pollution

Poor air quality impacts both biodiversity (plants & animals) and buildings.

Sensitive plants, including commercial food plant species are unable to thrive in polluted environments. Fish and insect populations, and the species that rely on them, cease to thrive in turn. The external surfaces of buildings can become soiled by particulate matter and soot and may

also be unduly weathered as atmospheric pollutants dissolve in rainwater as it falls making it acidic.

Studies have shown that local air quality can be impacted by climate change and conversely climate change can impact local air quality. Average temperatures are predicted to continue to increase in future. Hotter, drier summers will increase pollution as some of the chemical reactions that lead to NO₂ formation require sunlight. Additionally, less rain will mean that less particulate fractions will be naturally washed out of the atmosphere. Higher environmental temperatures also make people more sensitive to the effects of pollution. The relationship between climate change, air quality and human health is likely to become more pronounced in future.

2 – Air Quality Strategy

The Air Quality Strategy

The Southwark Air Quality Strategy aims to:

- 1) Comply with the following legislation by:
 - EU Directives 1996/62/EC, 1999/30/EC, 2000/69/EC, 2002/3/EC, 2004/107/EC and 2008/50/EC
 - The Environment Act 1995
 - The Environmental Protection Act 1990
 - The Clean Air Act 1993
 - The Air Quality Standards Regulations 2010 & 2011

- 2) Comply with the GLA London Local Air Quality Management Framework by:
 - Having an up to date valid Air Quality Strategy
 - Regularly reviewing the area covered by Southwark's Air Quality Management Area
 - Having an Air Quality Action Plan listing actions to:-
 - ✓ Manage local air quality Southwark
 - ✓ Reduce emissions from buildings
 - ✓ Increase public awareness of local air quality & related public health issues
 - ✓ Reduce emissions from road traffic
 - ✓ Reduce carbon emissions
 - ✓ Regulate effectively to protect local air quality
 - Delivering the Air Quality Action Plan
 - Monitoring local air quality by maintaining our monitoring and improving it when resources are available
 - Providing an Annual Status Report and Annual Status Summary Report giving the detail of the results of local air quality monitoring and our progress against the Air Quality Action Plan
 - Working in partnership with the UK Government, GLA, other London Boroughs and locally based third party organisations such as Business Improvement Districts to deliver the improvements listed in the Air Quality Action Plan

3) Support the GLA's air quality objectives by:

- Retaining Southwark's Cleaner Air Borough Status
- Supporting, where possible and appropriate, the Mayor of London's air quality policies, objectives and actions
- Working with the Mayor of London's office to promote good environmental awareness and practice to business, commerce, road users and the general public
- Being mindful of the content of the London Plan and relevant Planning Guidance
- Lobbying for equality of access to clean air for all Londoners

4) Support the local public health framework objectives by:.

- Maintaining local air quality as a local public health priority
- Bidding for funds from any organisation offering relevant bidding opportunities to resource air quality improvement actions and projects within Southwark
- Ensuring a cohesive suite of council policies by co-ordinating local air quality policy with other relevant local policy documents, such as:-
 - ✓ Local Development Framework – The Southwark Plan & Core Strategy
 - ✓ Local & regional planning policy & special planning guidance
 - ✓ Transport Plan
 - ✓ Kerbside Strategy
 - ✓ Sustainability Strategy
 - ✓ Carbon Reduction Action Plan
 - ✓ Housing & Modernisation Programme
 - ✓ Tree Planting, Parks & Green Space Strategies

3 – Strategic Air Quality Action Plan

Strategic Aims	Objectives	Action number
Manage local air quality	Monitor local air quality	1.1 to 1.4
	Comply with the requirements of the London Local Air Quality Management Framework	1.5 to 1.11
	Devise a communication plan for air quality	1.8
Reduce emissions from buildings	Provide technical guidance on air quality assessment & mitigation	2.1 to 2.2
	Use planning process to reduce emissions from new and refurbished developments and to implement the highest environmental standards for emissions to air	2.3
	Raise awareness regarding heating fuel economy	2.4
	Low emission neighbourhoods	2.5
Increase public awareness	Encourage active travel including walking & cycling	3.1 to 3.7
	Publicise air-Text air quality forecasts and cleaner routes for active travel	3.9
	Ensure web-based information and guidance on air quality is available and up to date	3.10
	Run communication campaigns on personal and business behaviour change to improve air quality	3.11
	Provide guidance on how to improve air quality to public	3.12 to 3.13
	Work with clinicians to ensure information on the health impact of environmental air quality is passed to relevant patients	3.14
	Provide advice to schools on air quality issues	3.15
Reduce emissions from road traffic	Promote freight consolidation	4.1 to 4.6
	Encourage logistics fleets operation in the borough to get FORS scheme Silver accreditation	4.5
	Reduce emissions from Southwark Council's vehicle fleets	4.7 to 4.11
	Ensure Southwark Council's travel plan is up to date	4.12 to 4.13
	Reduce road traffic emissions	4.14 to 4.25
	Reduce vehicle emissions from the school run	4.26 to 4.27

Strategic Aims	Objectives	Action number
	Support the extension of ULEZ to cover the whole of Southwark and support any future extension to the M25	4.17
	Reduce vehicle idling	4.19 to 4.22
	Variable parking charges based on fuel type	4.23 to 4.24
	Air quality around schools	4.26 to 4.29
	Promote reduction of private vehicles	4.30
Reduce Carbon emissions	Promote reduced fuel/energy consumption from buildings	5.1 to 5.6
	Improve the energy efficiency of buildings managed by Southwark Council	5.7 to 5.11
	Install renewable energy technologies to Southwark Council buildings	5.12 to 5.16
	Use planning policy to reduce local atmospheric emissions	5.17 to 5.18
	Increase the no. of council homes using renewable energy from SELCHP	5.19
Regulation	Discourage & prevent the burning of unauthorised fuels in Southwark's Smoke Control Zone	6.1 to 6.2
	Ensure all Part B EPA'90 processes in the borough maintain compliance with their permits	6.3
	Green infrastructure	6.4
	Healthy Streets	6.5
	Construction sites	6.6 to 6.8
	Discourage and prevent bonfires and open burning	6.10 to 6.11
Support the GLA	Take air quality improvement action within GLA Air Quality Focus Areas	7.1 to 7.12
	Retain Southwark's Cleaner Air Borough status	7.13
	Support the extension of the ULEZ to cover the whole of Southwark and support any future extension to the M25	7.14
	Support the GLA's planning policy	7.15
	Support and lobby for cleaner air for all Londoners	7.16 to 7.17
Support the Public Health Framework Objectives	Include local air quality in Southwark Council's Joint Strategic Needs Assessment	8.1 to 8.2
	Retain local air quality as a public health priority	8.3
	Ensure local air quality is considered in all relevant policy documents	8.4
	Devise a local cascade for poor air quality alerts	8.5

Appendix 1 – Air Quality Action Plan Work Streams

Section 1 – Manage Local Air Quality								
Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations/ benefit	Directorate	Delivered by Lead Service Area / Team	Timescale
1.1	Air quality monitoring	Maintain the two continuous air quality monitoring stations	Ensure that the air quality monitoring stations at the Elephant & Castle and the Old Kent Road are maintained, serviced and calibrated to current guidance	90% data capture	To inform air quality policy	Environment & Social Regeneration	Environmental Protection	December 2022
1.2		Maintain the NO ₂ diffusion tube survey.	Ensure that the NO ₂ diffusion tube monitoring is maintained in accordance with current guidance	The collection and deployment of diffusion tubes is carried out on 100% of the dates set by Defra	To inform air quality policy	Environment & Social Regeneration	Environmental Protection	December 2022
1.3				100% of tubes collected analysed & results to be displayed on the Southwark website	To inform air quality policy	Environment & Social Regeneration	Environmental Protection	December 2022
1.4		Review the use of low-cost sensor technology to support air quality modelling	Support the University consortium 'Managing air for green inner cities' (MAGIC) project (London Road)	Receive a copy of the project report & conclusions on the use of low-cost sensor technology	To inform air quality & planning policy	Environment & Social Regeneration	Environmental Protection	December 2022
1.5	London Local Air Quality Management Framework	Prepare and produce all London Local Air Quality Management Framework reports as required	All reports required by the London Local Air Quality Management Framework produced and submitted	Reports submitted to Defra and GLA by deadline	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	December 2022
1.6		Respond to all appropriate air quality consultations	Review all air quality consultation requests and respond where appropriate	100% of appropriate air quality consultation responses submitted by deadline	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	December 2022
1.7		Ensure the air quality action plan is current	Review the local air quality action plan to ensure it is up to date	Review air quality action plan annually	NO ₂ & PM	Environment & Social Regeneration	Environmental Protection	By May each year
1.8		Have a communication plan for relevant air quality improvement actions	Devise a communication plan	Review air quality communication plan annually	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection & External Affairs	By June each year

Section 1 – Manage Local Air Quality

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team	Timescale
1.9		Support the Mayor of London's call for a government scrappage scheme for private diesel vehicle	Public statement/s of support from Cabinet Member	3 published statements of support	NO ₂ , PM & CO ₂	Chief Executive	Policy & Public Affairs	December 2018
1.10		Support the Mayor of London's call that the Government should modify the Vehicle Excise Duty regime to disincentive the purchase of diesel vehicles	Public statement/s of support from Cabinet Member	3 published statements of support	NO ₂ , PM & CO ₂	Chief Executive	Policy & Public Affairs	December 2018
1.11		Support the introduction of a new or revised Clean Air Act that improves public protection from atmospheric pollution	Explore whether there is support for new or revised Clean Air Act or a new London Act with the GLA and London Councils	Write to GLA & London Councils and attend any relevant meetings or seminars and respond to all written consultations within deadline	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	December 2018

Section 2 – Reduce Emissions from Buildings

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team	Timescale
2.1	Local Air Quality Assessments	Ensure that Southwark Council's air quality technical guidance provides the latest advice on air quality assessment and mitigation	Devise air quality technical guidance	Produce technical guidance & review it annually.	NO ₂ & PM	Environment & Social Regeneration	Environmental Protection	December 2017 ongoing
2.2			Include the air quality technical guidance standards in an SPD	Explore and timetable including air quality technical guidance standards in an SPD	NO ₂ & PM	Chief Executive	Planning Policy	2019
2.3	Environmental Standards	Planning applications assessed to ensure that all developments will meet the requirements of the local air quality technical guidance	Assessment of all relevant planning applications with reference to the air quality technical guidance	100% of relevant planning applications assessed.	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	December 2017
2.4	Increase the awareness of residents, businesses & visitors of the need to reduce emissions to atmosphere	Promote the reduction of total emissions to atmosphere	Public information campaign on domestic or commercial heating fuel type and fuel economy	1 campaign each year	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection, External Affairs (& BIDS and Business Forum if commercial campaign)	December 2017 ongoing
2.5	Low Emission Neighbourhood	Review the effectiveness of the pilot GLA funded Low Emissions Neighbourhoods projects	Review the evaluation reports from the MAQF Low Emission Neighbourhoods schemes	Review any reports produced within 12 months and report on lessons learned and their potential application in Southwark	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection Team	July 2019 ongoing

Section 3 – Public Health Education & Awareness

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/concentrations benefit	Directorate	Delivered by Lead Service Area / Team	Timescale	
3.1	Encourage residents and those working in the borough to walk and cycle	Encourage children and parents to walk or cycle to school or nursery	Promote School Travel Plans & increase the number of schools attaining TfL STARs Silver or Gold accreditation each year	Increase the number of schools with TfL STARs Silver accreditation by 7 schools or nurseries each year	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Sustainable Travel & Road Safety	July 2018 ongoing	
3.2				Increase the number of schools with TfL STARs Gold accreditation by 5 schools or nurseries each year	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Sustainable Travel & Road Safety	July 2018 ongoing	
3.3		Encourage Southwark staff to commute by walking or cycling	Provide greater access to cycles for staff	Promote the Authority's Travel Plan.	Annual promotion of the Travel Plan	NO ₂ , PM & CO ₂	Housing & Modernisation	Facilities Management	May 2018 ongoing
3.4				Promote the use of pool cycles &/or provide cycling offer annually	NO ₂ , PM & CO ₂	Housing & Modernisation	Facilities Management	May 2018 ongoing	
3.5				If pool cycle demand exceeds capacity. Introduce additional pool cycles to meet demand	NO ₂ , PM & CO ₂	Housing & Modernisation	Facilities Management	May 2018 ongoing	
3.6		Encourage employees of businesses in Southwark to commute by foot or cycle	Encourage employees of businesses in Southwark to walk or cycle through the promotion of business specific travel plans	An increase in the number of people walking or cycling for their commute in the Authority's Travel Plan Bi-annual survey	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Sustainable Travel & Road Safety	June 2018 ongoing	
3.7				Promote active travel through relevant public health work streams and services including physical activity and healthy weight	Include measures to increase active travel in all relevant new & revised public health strategies, action plans and events	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Public Health	Jan 2018 ongoing
3.8		Increase public awareness of air quality forecasting and information on avoidance of high levels of pollutants	Public aware of how to access AirText, CityAir and Walkit apps	Promotion of availability of AirText, CityAir and Walkit apps	Include information on apps in all air quality query responses and on all relevant air quality related promotional information	Protect individual health	Environment & Social Regeneration	Public Health & Environmental Protection	September 2017
3.9		Evidence based policy	Ensure action to tackle the health impact where air quality information is intelligence led and evidence based	Provide public health advice and guidance on the health impacts of air quality and any mitigating actions	Review all relevant advice and guidance as part of the JNSA process	To inform air quality policy	Environment & Social Regeneration	Public Health	September 2017 ongoing

Section 3 – Public Health Education & Awareness

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/concentrations benefit	Directorate	Delivered by Lead Service Area / Team	Timescale
3.10	Web information on air quality	Southwark website content has comprehensive information and appropriate guidance on air quality	Ensure web-based information is accurate and up to date	Review & update content of air quality web pages annually	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection & Public Health	September 2017 ongoing
3.11	Increase awareness of air quality issues	Public and businesses aware of the impact of their actions on air quality	Communication campaign on personal or business behaviour change to improve air quality	Annual campaign	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection with Transport Planning &/or Highways, Public Health, BIDs, the Business Forum & External Affairs	May 2018 ongoing
3.12		Provide general public with advice on what they can do to improve air quality	Prepare guidance for general public on what they can do to improve air quality	Put guidance on air quality web page and present at community councils	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection, Public Health, Transport Planning & External Affairs	September 2017
3.13		Notify all Community Councils of revised Air Quality Strategy 2017 – 2022	Present Air Quality Strategy 2017 – 2022 at all Community Councils	Present Air Quality Strategy 2017 – 2022 at all Community Councils each time it is revised	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	March 2018
3.14	Protect health vulnerable groups including children the ill and the elderly from poor air quality	Ensure those advising in poor respiratory health with advice on reducing personal exposure to atmospheric pollutants	Work with clinicians via Breathlessness Group of CCG to ensure GPs have access to appropriate prompts, advice and information for use in GP surgery consultations	GPs able to access appropriate prompts, advice and information for use in GP surgery consultations	Protect individual health	Environment & Social Regeneration	Environmental Protection & Public Health	October 2017
3.15		Provide advice to schools and nurseries with regard to improving air quality in and around their premises and on how to avoid high pollution environments	Devise advice to schools on air quality	Schools have information on a range of actions that they can take to improve air quality in and around their premises and on how to avoid pollution	Protect individual health	Environment & Social Regeneration	Environmental Protection, Public Health & Sustainable Travel & Road Safety	June 2017

Section 4 – Reduce Emissions from Road Traffic

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team	Timescale
4.1	Reducing Emissions from Delivery and Servicing	Develop a freight consolidation solution for Southwark	Carry out a joint feasibility study with Lambeth, Wandsworth and Croydon	Feasibility study completed	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	March 2017
4.2			If the feasibility study is positive, implement the preferred solution	Monitor the development of any preferred solution	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection & Procurement	March 2019
4.3				Evaluate the impact of the preferred freight consolidation	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	March 2019 ongoing
4.4		If consolidation centre opens – All Southwark Council suppliers to use the proposed freight consolidation solution where possible	Ensure in-contract documentation that all Southwark Council suppliers are required to use any implemented consolidation solution	100% of suppliers, that can use the approved freight consolidation solution, using it	NO ₂ , PM & CO ₂	Finance & Governance	Procurement	March 2019
4.5		All non-consolidation solution suppliers to the authority with a large fleet to join the Fleet Operator Recognition Scheme (FORS) and obtain Silver accreditation as a minimum	Within the contract documentation that all suppliers of large fleet are required to hold Silver accreditation of the Fleet Operator Recognition Scheme (FORS) or it be achieved within six months of the contract being signed, along with an ongoing commitment to use ULEV's	100% of all suppliers to the authority	NO ₂ , PM & CO ₂	Finance & Governance	Procurement	March 2019
4.6		To support sustainable logistical measures in the north of the Borough	Work with stakeholders to promote the combination and rationalisation of deliveries using low & zero emission vehicles and local distribution hubs for final stage delivery Explore-the feasibility of new technologies for smart deliveries	Increased % of commercial deliveries using low & zero emission vehicles	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy	March 2019
4.7		Reduce Southwark commercial fleet emissions	Switch to use of low or no emission vehicles	Every commercial vehicle procured to undergo full sustainability evaluation to determine suitability of low to determine suitability of low or no emission alternatives	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Fleet Services	March 2018 for current fleet renewal and ongoing for all relevant procurements thereafter
4.8			Produce mileage and efficiency guidance for services	Efficiency guidance produced and passed to all service drivers Mileage and fuel use reports provided to Business Unit Managers	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Fleet Services	December 2017

Section 4 – Reduce Emissions from Road Traffic

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team	Timescales
4.9	Reducing Emissions from Delivery and Servicing	Introduction of telematics on commercial fleet	Install telematics on commercial fleet	Telematics installed on 100% of fleet	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Fleet Services	March 2018
4.10		Smarter Driver Training for drivers of all Southwark fleets	Introduce Smarter Driver training requirement for all fleet drivers	All current staff to undertake Smarter Driver training.	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Fleet Services	December 2018
4.11				All new staff to receive the training within six months of commencement of their employment	PM & CO ₂	Environment & Social Regeneration	Fleet Services	December 2018 ongoing
4.12	Travel Planning	Maintain an up to date Council Travel Plan consistent with the aims of the air quality action plan	Undertake survey of staff travel arrangements	Survey bi-annually	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Sustainable Travel & Road Safety	2017 & 2019 & 2021
4.13			Review the Authority's Travel Plan	Review bi-annually	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Sustainable Travel & Road Safety	2018 & 2020 & 2022
4.14	Reducing emissions from Taxis & Private Hire Vehicles	Smarter Driver Training for drivers of all taxis and private hire vehicles	Ask the GLA & TfL introduce a requirement that all PCO licences include a Smarter Driver training element	Annual request submitted to GLA until all PCO licences include a Smarter Driver training element	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	April 2018 ongoing
4.15		Support the London Mayor's requirement that all newly licenced taxis be zero emission capable from 2018	Support TfL in the identification and installation of EV charging points	Appropriate EV charging infrastructure in place	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy	December 2017
4.16	Reducing vehicle emissions	Reduced emissions from buses in the borough	Work with TfL & GLA to deliver the low emission bus zones in Southwark	Increase percentage of bus routes using low emission vehicles year on year	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy	June 2017 ongoing
4.17		Work with TfL and other London Boroughs to extend the Ultra-Low Emission Zone (ULEZ) to the South Circular initially with a long term option to extend to the M25	Respond to all consultations and via any relevant forums on the ULEZ recommending the ULEZ be to the South Circular initially with a long term option to extend to the M25	All consultations submitted by deadline	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy & Environmental Protection	December 2022
4.18		Reduce fine particle emissions from tyre, brake and clutch components	Engage with appropriate researchers and industries to increase research to reduce fine particle emissions from tyre, brake and clutch components	2 approaches made per annum	PM	Environment & Social Regeneration	Environmental Protection	December 2017 ongoing
4.19	Emissions from vehicles	Vehicle idling awareness	Run public awareness campaign	Campaign in run-up to enforcement going live	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection, Street Wardens & External Affairs	April 2017

Section 4 – Reduce Emissions from Road Traffic

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team	Timescales
4.20	Emissions from vehicles	Enforcement of the provisions of the Road Traffic Act	Authorise street based enforcement staff	Train all JET officers, & Bankside Wardens in Road Traffic Act vehicle idling enforcement	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Joint Enforcement Teams & Bankside Wardens	June 2017
4.21		Enforcement of the provisions of the Road Traffic Act	Authorise street based staff to undertake enforcement	Explore the inclusion of vehicle idling enforcement into the current Parking Enforcement Contract	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Parking Services	July 2017
4.22	Emissions from vehicles	Enforcement of the provisions of the Road Traffic Act	Authorise street based staff to undertake enforcement	Authorise the Council's staff & Parking Enforcement Officers to issue PCN for vehicle idling offences	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Parking Services	September 2017
4.23		Variable vehicle parking charges to promote use of less polluting vehicles	Review the charges for on-street parking & permits	Report to Cabinet by December 2017	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Parking Services	December 2017
4.24	Emissions from vehicles	Variable vehicle parking charges to promote use of less polluting vehicles	Review the charges for Housing Estate parking permits	Report to Cabinet by December 2018	NO ₂ , PM & CO ₂	Housing & Modernisation	Residential Services	December 2018
4.25		Promote the reduction of total emissions to atmosphere	Public information campaign on alternative fuels for fleets/cars	1 campaign each year	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection, External Affairs, BIDS & the Business Forum	January 18 ongoing
4.26	Air quality around schools	Reduce parent & carer parking close to primary schools and nurseries	Pilot School Streets at 5 primary schools or nurseries	Produce a shortlist of primary schools or nurseries that meet the School Streets criteria	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Sustainable Travel & Road Safety	May 2017
4.27				Implement pilot at 5 primary schools or nurseries	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Sustainable Travel & Road Safety	December 2017
4.28		GLA Air Quality Audits for primary school/s	Air Quality Audit/s facilitated	Air Quality Audit/s complete	NO ₂ , PM & CO ₂	Children's & Adults Services	Education	December 2017
4.29			Identify funding to implement the Air Quality Audit recommendations	Implement the recommendations of the Air Quality Audits when funding is available and necessary permissions are obtained	NO ₂ , PM & CO ₂	Children's & Adults Services	Education	December 2019
4.30	Reduce private vehicles in the Borough	Promote the use of shared mobility in Southwark	Continue to promote & encourage shared mobility systems	Publicise, monitor and report on the new infrastructure and usage of mobility options	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy	December 2022

Section 5 – Reducing Carbon (extract from Authority’s Carbon Reduction Strategy)

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team	Timescales
5.1	Reduction of carbon emissions	Require developers to contribute to reducing atmospheric emissions	Achieve minimum 35% regulated carbon emissions reduction on Part L of 2013 Building Regulations on all new major developments	95% of relevant major planning applications meet policy target	PM & CO ₂	Chief Executive	Development Management	December 2018
5.2			Any of the 35% minimum CO ₂ reduction not achieved on-site to be secured through S106 for the “Green Fund” (carbon off-setting projects) for the equivalent remaining regulated carbon emission savings	100% of major planning applications not meeting the 35% minimum CO ₂ reduction on-site to address remaining emissions through off-setting funds secured through S106	PM & CO ₂	Chief Executive	Development Management	December 2018
5.3			New homes on all major developments to be zero carbon as per London Plan policy 5.2, achieved either on-site or via financial contributions for off-setting	100% of off-setting funds secured allocated to carbon off-setting projects	PM & CO ₂	Chief Executive	Development Management	December 2019
5.4		Require developers to contribute to reducing atmospheric emissions	All major developments to achieve Air Quality Neutral Standards onsite	100% of major developments to achieve Air Quality Neutral standards	NO ₂ , PM & CO ₂	Chief Executive	Development Management	December 2018
5.5			Where Air Quality Neutral standards not achieved on-site, off-setting funds secured through section 106 to ensure development meets the air quality neutral standard equivalent	100% of major planning applications not meeting the on-site Air Quality Neutral standard secure remaining requirement through off-setting funds through S106	NO ₂ , PM & CO ₂	Chief Executive	Development Management	December 2018
5.6			Commit and spend all off-setting funds on carbon off-setting projects	All funds secured for carbon off-setting purposes monitored and reported	PM & CO ₂	Chief Executive	Development Management	December 2018 ongoing
5.7	Improve the energy efficiency in Southwark homes	Promote reduced energy consumption and bills	Promote low cost energy efficiency measures	1 seasonal article per year promoting energy reduction measures	NO ₂ , PM & CO ₂	Housing & Modernisation	Major Projects & External Affairs	September 2017 ongoing
5.8		Maximise funding streams available to improve energy efficiency	Bid for funding where funding will be beneficial to energy efficiency and fit in with the overall council objectives	Report on funding received and utilised	NO ₂ & CO ₂	Housing & Modernisation	Major Projects	December 2018 ongoing

Section 5 – Reducing Carbon (extract from Authority’s Carbon Reduction Strategy)

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team	Timescales
5.9	Improve energy efficiency in Southwark homes	Install ultra-low NO _x boilers in council & TMO housing	Install ultra-low NO ₂ boilers when boilers are replaced in council and TMO housing	Install an average of 1600 ultra-low NO ₂ boilers/year	NO ₂ & CO ₂	Housing & Modernisation	Major Projects	December 2022
5.10		Develop & implement a strategy for communal boiler upgrades and renewals within council housing	Develop & implement the strategy for communal boiler upgrades and renewals	Strategy approved and subsequent progress against strategy targets reported	NO ₂ & CO ₂	Housing & Modernisation	Major Projects	December 2022
5.11		Monitor the effect of energy efficiency improvements in the Council’s social housing planned renewal programme	Implement monitoring regime for improvement programme in the social housing planned works programme	Develop baseline SAP score in 2017/18 and monitor the changes through the investment programme annually	NO ₂ & CO ₂	Housing & Modernisation	Major Projects	March 2018 ongoing
5.12	Promote the use of renewable energy and minimise the energy demand of Southwark estate	Reorganise the use of space in operational council buildings to reduce overall energy demand	Improve the use of Council buildings making them more sustainable, flexible, cost & space efficient	Baseline study in 2017/18 and monitor the change annually through the Modernise Strategy	NO ₂ & CO ₂	Chief Executive	Facilities Management	March 2018 ongoing
5.13		Be aware of the energy used and generated by the Authority’s operational buildings	Publish on-line information of the energy used and any generated by the Authority’s operational buildings	Web based information available to public	To inform policy	Environment & Social Regeneration	Service Development	December 2017
5.14	Promote the use of renewable energy and minimise the energy demand of Southwark Housing	Explore the opportunity to install renewable energy technologies in Southwark housing	Through extra funding, explore the opportunity of installing renewable energy technologies & energy efficiency measures and retrofitting insulation	Explore all available grant opportunities	NO ₂ , PM & CO ₂	Housing & Modernisation	Major Projects	December 2022
5.15			Explore options to set up community energy schemes on estates	Consider resident proposals for community energy schemes, subject to consultation and being cost effective	NO ₂ , PM & CO ₂	Housing & Modernisation	Major Projects	December 2018
5.16			Explore use of low energy alternatives and motion sensor systems to major repairs to lighting systems on estates	New lighting project on housing estates will be assessed using the best available technology to reduce energy use and taking into account the lifespan of the product and community safety issues	CO ₂	Housing & Modernisation	Major Projects	December 2019

Section 5 – Reducing Carbon (extract from Authority’s Carbon Reduction Strategy)

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team	Timescales
5.17	Ensure new developments minimise their impact on local air quality and climate change	Develop robust air quality planning policies	Develop robust air quality planning policies in the New Southwark Plan, Old Kent Road Area Action Plan & any new and revised Neighbourhood Plans	Adopt robust policies on air quality in all relevant planning policies	NO ₂ , PM & CO ₂	Chief Executive	Planning Policy	December 2017
5.18		Highlight design guidance for best practice in reducing emissions to air	Develop a revised Sustainable Design and Construction SPD that includes up to date guidance on improving air quality	Revised Sustainable Design and Construction SPD is adopted	NO ₂ , PM & CO ₂	Chief Executive	Planning Policy	December 2018
5.19	Increase number of Southwark Council Homes using renewable energy	Increase no. of Southwark Council Homes using renewable energy from SELCHP	Connect more dwellings to SELCHP	Increase no. of homes connected to SELCHP by 50%	NO ₂ , PM & CO ₂	Housing & Modernisation	Major Projects	December 2022

Section 6 – Regulation

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/concentrations benefit	Directorate	Delivered by Lead Service Area / Team	Timescales
6.1	Smoke Control Zone	Enforcement of the Clean Air Acts	Ensure that all retail premises selling wood and coal are aware that the whole of Southwark is a Smoke Control Area	An annual enforcement campaign	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	October 2017 ongoing
6.2		Discourage burning of logs and house coal	Undertake a communication campaign during the Autumn to highlight pollution caused by using non - smokeless fuels	Campaign each year until 2022	PM & CO ₂	Environment & Social Regeneration	Environmental Protection & External Affairs	October 2017 ongoing
6.3	Emissions from industrial premises know to emit emissions to air	Regulation of EPA Part B processes	All IPPC premises in the Borough inspected in accordance with their risk assessment	Annual inspection of 100% of all relevant premises	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	March 2017 ongoing
6.4	Green infrastructure	Increase the amount of green infrastructure	Explore all opportunities to install green infrastructure	Increase the quantity of green infrastructure in the Borough	NO ₂ & PM	Environment & Social Regeneration	Public Realm	December 2022
6.5	Healthy Streets	Assess the Borough's Highways against the criteria in TfL's Healthy Streets approach	Highway projects to be assessed against the TfL's Healthy Streets criteria	All new Highway projects proposed to be assessed against the TfL's Healthy Streets criteria	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Highway Projects	December 2022
6.6	Emissions from development	Emissions from construction minimised	Ensure that all strategic and major developments are aware of the Authority's Technical Guidance for Demolition & Construction	100% of all major & strategic planning application developers made aware	NO ₂ & PM	Environment & Social Regeneration	Environmental Protection	December 2017 ongoing
6.7	Emissions from construction equipment	Ensure all Non-Road Mobile Machinery (NRMM) complies with the GLA SPG construction criteria	Ensure that all strategic & major construction sites are on the on-line NRMM register	100% of all strategic and major construction sites registered on the on-line NRMM register	NO ₂ & PM	Environment & Social Regeneration	Environmental Protection	December 2018 ongoing
6.8			All strategic and major construction sites are inspected for NRMM compliance	100% compliance of all major & strategic construction sites	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	December 2018 ongoing

Section 6 – Regulation

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team	Timescale
6.9	Emissions from developments and premises	Enforcement of the provisions of the Environmental Protection and Clean Air Acts	Apply the provisions of Clean Air Act 1993 S.14 (chimney height.) to appropriate developments	To 100% of all relevant developments	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	December 2022
6.10			Investigate reports of bonfires & open burning	90% of all reports investigated	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Noise & Nuisance	December 2022
6.11	Emissions from waste management process	Enforcement of the Permit conditions at waste management sites in the Borough	Liaise with Environment Agency to ensure appropriate controls are being used to minimise and mitigate the creation of dust and fume at waste management sites	Review air quality management practices at waste management sites in the Borough	PM	External – Environment Agency	Environmental Protection	June 2018

Section 7 – Support the GLA Air Quality Aims

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations/ benefit	Directorate	Delivered by Lead Service Area / Team	Timescale
7.1	GLA Air Quality Focus Areas	Target the improvement of air quality in the GLA Air Quality Focus Areas	Ensure that local air quality is monitored in the GLA Air Quality Focus Areas	100% of the GLA Air Quality Focus Areas monitored for air quality	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	April 2018 ongoing
7.2				In Air Quality Focus Area 151 (Old Kent Road) explore a method of improving the traffic flow on the A2 in areas where congestion occurs.	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	2017 ongoing
7.3				In Air Quality Focus Area 152 (Elephant & Castle) explore increasing green infrastructure in the public realm	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	2017 ongoing
7.4				In Air Quality Focus Area 153 (London Bridge) explore working with the BID's to improve the energy efficiency of the commercial properties and increase green infrastructure	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	2018 ongoing
7.5				In Air Quality Focus Area 154 (Lower Road) explore complimenting the L.B. Lewisham Construction Logistics Project and reviewing traffic flow in the Lower Road gyratory system	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection & Network Management	2018 ongoing
7.6				In Air Quality Focus Area 155 (Peckham Town Centre) explore reviewing the bus routes in the centre, increasing the number of low NO _x buses and improving the traffic flow on Peckham High Road	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection & Transport Policy	2019 ongoing
7.7				In Air Quality Focus Area 156 (Tower Bridge Road) explore implementing permanent anti-idling signage associated with the lifting of Tower Bridge	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection & Transport Policy	2019 ongoing
7.8				In Air Quality Focus Area 157 (Walworth Road / Camberwell Road / Camberwell Green) explore working with Southwark Highway Project Team to improve the traffic flow through the crossroads	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection, Transport Policy & Highways	2017 ongoing
7.9				In Air Quality Focus Areas 152, & 153 and 157 explore using geo-fencing for TfL buses to only use the bus in an electrical mode	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	2019 ongoing

Section 7 – Support the GLA Air Quality Aims

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team	Timescale
7.10	GLA Air Quality Focus Areas	Target the improvement of air quality in the GLA Air Quality Focus Areas	Ensure that the implemented air quality projects in the GLA Air Quality Focus Areas are assessed	100% of projects assessed	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	2021
7.11			Ensure that local air quality projects in the GLA Air Quality Focus Areas are comprehensively evaluated	100% of the projects produce an evaluation report at the end of the project period	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy & Environmental Protection	2021
7.12			Ensure that air quality projects implemented in the GLA Air Quality Focus Areas are regularly reviewed	All the implemented projects are reviewed annually	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	2021
7.13	Cleaner Air Borough	Ensure full consideration of GLA air quality planning policy changes	Take all actions required by GLA to retain Cleaner Air Borough status	Cleaner Air Borough status retained	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	2021
7.14	The extension of the ULEZ	Extension of ULEZ to include the whole borough & to be extended to the M25 as soon as practical	Respond to all GLA consultations expressing the Southwark policy stance	100 % of responses made within consultation period	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy & Environmental Protection	2019
7.15	Support GLA planning policy with regard to air quality	Ensure full consideration of GLA planning policy changes that relate to air quality	Ensure GLA air quality policy is considered in all planning decisions	100% of all applications	NO ₂ , PM & CO ₂	Chief Executive	Development Management	2022
7.16	Mayor's Air Quality Fund	Identify projects suitable for Mayor's Air Quality funding	Review the Mayor's Air Quality funding guidance & apply for funds where possible	Apply for funding at each round of Mayor's Air Quality Fund made available	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	2022
7.17	Clean Air for Londoners	Work with the GLA & TfL and other organisations towards meeting the national air quality objectives	Review all external opportunities to participate in air quality improvement projects	Maximise any appropriate external opportunities to deliver local air quality improvement projects	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection, Public Health & Transport Policy	2022

Section 8 – Support Public Health Framework Objectives

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations/ benefit	Directorate	Delivered by Lead Service Area / Team	Timescales
8.1	Joint Strategic Needs Assessment	The JSNA includes air quality and has up to date information on its health impacts	Produce an air quality section for the JSNA	JSNA air quality section ratified	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Public Health	June 2017
8.2			Review the air quality section of the JSNA annually	JSNA air quality section updated	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Public Health	June each year
8.3	Air Quality & Public Health	Retain local air quality as a public health priority	Provide up to date information in connection with air quality	Provide annual updates to Cabinet Member and Health & Well-being Board	NO ₂ , PM & CO ₂	Environment & Social Regeneration	Environmental Protection	May 2018 ongoing
8.4	Embed Air Quality Policy	Ensure that local air quality is considered within all relevant complementary council policy developments	All relevant new policies to incorporate air quality improvement objectives	All relevant new policies to incorporate air quality improvement objectives	NO ₂ , PM & CO ₂	Chief Executive	All relevant operational service areas	2022
8.5	Air Quality Alerts	Provide poor air quality alert information to Southwark Council staff caring for health vulnerable persons with particular emphasis on nurseries, primary schools and care homes	Devise a Poor Air Quality Alert internal cascade for staff working in nurseries, primary schools and care homes	Implement by September 2017	NO ₂ & PM	Environment and Social Regeneration	Environmental Protection & Public Health	September 2017

Technical Appendices

The appendices are in a separate document accessible on the Southwark website at www.southwark.gov.uk/airquality . Below is the list of technical appendices available.

Appendix 1 – Air Quality Objectives

Appendix 2 – Health Impacts of Air Pollution

Appendix 3 – Air Quality Monitoring & Modelling Results

Appendix 4 – Emission Sources / Source Apportionment

Appendix 5 – Glossary

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