

<b>Item No.</b> 6	<b>Classification:</b> Open	<b>Date:</b> 6 April 2023	<b>Meeting Name:</b> Education and Local Economy Scrutiny Commission
<b>Report title:</b>		Air pollution around schools	
<b>Ward(s) or groups affected:</b>		All	
<b>From:</b>		Head of Regulatory Services	

## RECOMMENDATION(S)

1. That Education and Local Economy Scrutiny Commission note the contents of this report.

## BACKGROUND INFORMATION

2. Southwark has a statutory duty to review and assess air quality in the borough. Southwark has been monitoring air quality in the Borough through a combination of continuous air quality monitoring stations, diffusion tubes, and low cost sensors
3. A recent review in 2022 resulted in the Air Quality Management Area (AQMA) being extended to cover the whole borough. In January 2022 we updated the Air Quality Action Plan for 2022 – 2027. The plan includes actions to reduce the effects of air pollution in the borough, including at and around schools.
4. Monitoring air quality, and taking actions around schools, is priority. It also work towards meeting the commitments made in the “Fairer, greener, safer” ambition of the Council Delivery Plan 2022 – 2026 - A healthy environment section:-
  - *Act to improve air quality and road safety at every Southwark school:*
    - *Making more roads outside schools car free at the start and end of the school day*
    - *Reducing traffic near schools*
    - *Providing more green screens, trees and air cleaning for schools*
5. More recently, as part of our air quality improvement initiative, the Environmental Protection Team (EPT) led a project that completed the audit of air quality in 24 schools. Participating schools were selected on the basis of exceeding the Nitrogen Dioxide annual mean national air

quality objective of 40 µg/m<sup>3</sup> in 2016 as listed in **Table 1 Appendix A**.

6. In addition to the general monitoring of air quality across the borough, there is particular interests in the air quality of certain areas because of the demographic, traffic intensity and other factors which exacerbates the harmful effects of poor air quality. Schools are one such areas and monitors are located in close proximity to, or around the area of 15 schools.
7. The schools with air quality monitors cited in close proximity which provides data that can be meaningfully relate to the air quality directly experienced in the school premises or around those premises are listed **Table 2 in Appendix A**

### **Types of Monitoring**

#### **Southwark's Continuous Air Quality Monitoring Stations**

8. Southwark currently has six continuous air quality monitoring stations. All the air quality monitoring stations measure Nitrogen Dioxide (NO<sub>2</sub>) gas and Particulate Matter, small and fine referred to as PM<sub>10</sub> and PM<sub>2.5</sub> respectively. Measurements are continuous, and the data is averaged over 15 minutes and 1 hour. The data collected is published annually in the Authority's Annual Status Report (ASR) and is published on Southwark's website. The location of these air quality monitoring stations is shown in **Figure 1** map in **Appendix B**, and data from the latest ASR report can be seen in
- 9.
- 10.
11. Figure 2.

#### **Nitrogen Dioxide Diffusion Tubes Survey**

12. Since 2012, Southwark has been running a nitrogen dioxide (NO<sub>2</sub>) diffusion tube survey in the Borough. The survey has increased from 15 locations in 2012 to 90 in 2023. Diffusion tubes absorb the pollutant to be measured directly from the air onto a substance from which the pollutant is later extracted and analysed. They are useful for providing longer term measurements and observing trends in pollution concentrations.
13. A map of the diffusion tube survey monitoring sites for 2022 can be seen **Figure 3** of **Appendix C** During the period 2016 and 2021 there have been 18 diffusion tube monitoring sites adjacent to schools, the results are shown in **Table 3** of **Appendix C** of this report.

#### **Low Cost sensors**

14. Recently, Southwark has invested in low-cost electro-chemical air quality

monitoring sensors. Low-cost sensors are classed as indicative air quality monitors, as there is no standard method to calibrate the various sensors.

15. Three schools have these sensors connected to the Breathe London network (Tower Bridge, Oliver Goldsmith, and Charlotte Sharman), and these sensors show diurnal variations in NO<sub>2</sub> and PM<sub>2.5</sub>. The annual data from these three schools is presented in **Appendix D** of this report. There are two further Southwark low-cost sensors at Robert Browning and St Francis schools as part of School Streets projects.
16. The Harris Primary Academy East Dulwich has just been awarded a Breathe London monitor as part of The Breathe London Community Programme. The Breathe London Community Programme is funded by Bloomberg Philanthropies, and it aims to democratise air quality monitoring and create a community of groups who support each other and share their experiences and ideas for improving air pollution conditions. The Community Programme supports the groups in understanding neighbourhood level air pollution data and engaging communities to effect change in their neighbourhoods

### **London Atmospheric Emission Inventory**

17. On a regular basis the GLA produce a London Atmospheric Emission Inventory (LAEI) The LAEI provide the London Boroughs with maps showing the concentrations of NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> for the whole of the GLA administrative area and for each of the individual Boroughs. The Southwark maps can be seen in **Appendix E** of this report. As part of the inventory package the GLA analyses the population exposure to the pollutants. This analyses produces a spreadsheet which shows the average annual levels of pollutants at all school in the GLA area. The average annual mean levels at each school in Southwark, is reproduced as **Appendix F**.
18. The data has shown that the air quality continued to improve over the three year period 2016 to 2019, so leaving just one secondary school still in an area with illegal air quality according to the UK NO<sub>2</sub> standard of 40 micrograms per cubic metre.
19. The Environmental Targets (Fine Particulate Matter) (England) Regulations 2023 has stipulated a concentration target of the annual mean level of PM<sub>2.5</sub> in ambient air must be equal to or less than 10 µg/m<sup>3</sup> by the end of 31<sup>st</sup> December 2040. Current modelling shows all the schools in Southwark will exceed this level on the target date.
20. The London Mayor's Environment Strategy has a target to achieve an annual mean level of PM<sub>2.5</sub> in ambient air equal to or less than 10 µg/m<sup>3</sup> by the end of 31<sup>st</sup> December 2030. In order to meet this target the London Mayor is lobbying the Government for extra legislative powers to control PM<sub>2.5</sub> sources further.

### **Air quality projects involving schools**

<b>Air Quality Audits</b>	<p>24 Southwark schools have received an Air Quality Audit, and Southwark are issuing starter grants to start implementing recommendations. The recommendations may be divided into different groups: Highways (Parking in the area around the schools, idling, route to schools, freight activity etc.), School grounds (location of the school and whether the playgrounds are adequately screened, cycle and scooter parking at the school etc.) and behavior change (cleaning products, building management systems, heating provision.)</p>
<b>School Asthma Action Plans</b>	<p>Environmental Protection Team (EPT) are making a capital bid to help schools to produce School Asthma Action Plans using materials provided by South East London Children and Young Persons Asthma Forum.</p>
<b>A living green barrier</b>	<p>St Saviors and St Olaves has been targeted for special attention because according to the latest available data, air quality at this school continues to fail the UK air quality standard due to its location adjacent to several main roads including Bricklayers Arms flyover. Using Highways funds and EPT project management, a living green barrier is being installed around the playground. This aims to change the air flow to mix cleaner air from higher levels with air entering the playground, rather than flowing in directly from the roadside. Following their school air quality audit, the school has removed eight car parking spaces.</p>
<b>Highways School Street schemes</b>	<p>School Streets (a Highways project) has implemented 23 schemes. The details of Highways School Street schemes programme for the 2022 – 2023 can be found in <b>Appendix G</b> of this report.</p>
<b>Air filter units</b>	<p>The Public Health Team offered funding to schools to install air filter units to protect against coronavirus and air pollution. These pilot schools were chosen based on PM<sub>2.5</sub> levels. Invitation letters, guidance documents, and grant funding agreements were sent to all 36 schools. Ten schools have accepted the offer, and it is anticipated that a further two schools will accept the offer.</p>

<b>Air sourced heat pump</b>	EPT are undertaking a Defra funded project to replace a gas fired heating system at Tower Bridge with an air sourced heat pump. Due to the location next to a busy arterial road, it is not possible to have a School Street scheme at this location, and the next best option to improve air quality is to reduce local emissions.
<b>Walking maps</b>	27 schools have been provided with walking maps. Walking maps will be produced for further schools over the next 3 years.
<b>airTEXT</b>	21. A project is under way to redevelop the airTEXT air quality forecasting and alerts service, and a community researcher will be approaching school to offer discovery and co-design workshops on a school specific version of the application.

## KEY ISSUES FOR CONSIDERATION

22. Air quality has improved in the Borough over recent decades. However, with increased knowledge of the effects of air quality on human health, increasing importance is given to the different pollutants, and the health limit values of the pollutants are reduced accordingly.
23. Southwark reviews the concentrations of pollutants against levels as declared by various regulations. At present Southwark does not meet all the standards, and the AQAP will help the Authority to work towards the standards.
24. From the available modelling and air quality monitoring data around schools, air quality can be seen to be generally improving around schools since 2016.
25. The World Health Organisation (WHO) has revised its air quality guidelines in 2021, these are at lower concentrations than the concentrations stipulated in UK regulations. The WHO guidelines recognise that in large urban areas the authorities will not meet the lowest guideline values, and has published interim guideline values. The London Mayor's target of meeting the annual mean level of PM<sub>2.5</sub> in ambient air to be at or below 10 µg/m<sup>3</sup> by the end of 31<sup>st</sup> December 2030, is an example of the interim guideline. The lowest WHO guideline for annual mean levels of PM<sub>2.5</sub> in ambient air is to be equal to or less than 5 µg/m<sup>3</sup>.

## Policy framework implications

26. Southwark has a statutory duty to review and assess air quality in the

borough. Since 1997 Southwark has carried out this duty, following policy and technical guidance documents published by Defra and the London Mayor. The outcome of the assessment has led to the declaration of an Air Quality Management Area (AQMA). The latest review in 2022 has resulted in the AQMA being extended to cover the whole borough.

27. A consequence of Southwark declaring an AQMA, is the requirement to publish and regularly update an Air Quality Action Plan. Southwark has just published its plan for 2022 – 2027. The plan includes actions to reduce the effects of air pollution in the borough, including at and around schools.

## **Community, equalities (including socio-economic) and health impacts**

### **Community impact statement**

28. All area of the borough are affected by poor air quality, but not all areas or people are affected equally: concentrations are often higher in more deprived areas.
29. Poor air quality has a significant impact on health, with up to 4,000 premature deaths each year in London linked to it. Fine particles have the greatest impact on health with young children and the elderly being most susceptible. In terms of the distribution of pollutants.

### **Equalities (including socio-economic) impact statement**

30. Studies have shown that people in deprived areas are affected by air pollution, but when the air pollution emissions produced by the population in these areas are analysed it has been found that these population produce the least air pollution.
31. Within Southwark, a large proportion of the population live along busy roads where the highest pollution is found.

### **Health impact statement**

32. A study in East London by the Imperial College London – Environmental Research Group<sup>1</sup> has found that there is an approximately 5% reduction in development of the capacity of the children's lung due to exposure of high air pollution.
33. At present there is another long term project studying the effect of the introduction of the central Ultra Low Emission Zone (ULEZ), where some pupils from Southwark schools are participating in the study. The Children's Health in London and Luton (CHILL) aims to independently evaluate whether the Ultra-Low Emission zone is effective at reducing air

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<sup>1</sup> Impact of London's low emission zone on air quality and children's respiratory health: a sequential annual cross-sectional study (November 2108) accessed at [https://www.thelancet.com/journals/lanpub/article/PIIS2468-2667\(18\)30202-0/fulltext](https://www.thelancet.com/journals/lanpub/article/PIIS2468-2667(18)30202-0/fulltext)

pollution, and improving children's lung growth, and respiratory health. The project started in 2018 and is due to be completed in the summer 2023.<sup>2</sup>

34. There are many pupils in Southwark schools that have been diagnosed with asthma. This can affect their education, and the treatment of asthma has a large cost implication to the NHS. In 2021 the South East London coroner reported the death of Ella Kissi-Debrah<sup>3</sup> in 2015, was due to air pollution. Ella Kissi-Debrah lived in Lewisham near the South Circular Road.
35. Air quality affects people of all ages especially those with respiratory diseases.

### **Climate change implications**

36. Initiatives aimed at improving air quality around schools will have a direct and indirect benefit to our approach in tackling the climate emergency in Southwark.
37. The majority of borough emission sources are the same for air quality and greenhouse gases. Therefore, EPT will continue to work with the Climate Change Team to ensure that the benefits of reducing emissions are maximised. EPT will also ensure that where possible, air quality reporting in schools aligns with the actions set out in the Climate Change Action Plan.
38. This work will feed heavily into the upcoming Resilience and Adaptation Plan, expected to be published this year. This document will set out how the borough responds to the effects of the use of greenhouse gases on the borough, of which poor air quality is one. There is also an opportunity to share the outcomes of this reporting with our Climate Action Schools Network, which was set up to help schools understand and respond to climate change in the borough.

### **Resource implications**

39. At present there are resources within the regulatory services, public health and highways teams who are working to improve air quality around schools, but all these teams are subject to pressures from many sources to deliver many different and often competing priorities.
40. The overall summary report of the Schools Air Quality Audit recommendations will soon be published. The implementation of the recommendations that are within the remit of Southwark will be reported to secure funding for the implementation of the appropriate measures by various department as part of the future work plans. This will have resource implications for a number of services as the Council resorts to different ways of delivering its services to reduce polluting activities.

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<sup>2</sup> Details of the CHILL Project can be accessed at <https://www.qmul.ac.uk/chill/>

<sup>3</sup> Details of the case can be accessed at <https://www.judiciary.uk/prevention-of-future-death-reports/ella-kissi-debrah/>

### **Legal implications**

41. The Environment Act 1995 as amended by the Environment Act 2021, has placed a legal duty on Local Authorities to improve local air quality by using the Local Air Quality Management Framework as discussed in paragraphs 29 to 31 of this report.

### **Financial implications**

42. EPT is proposing to submit a capital bid to progress the actions in the Air Quality Action Plan and this will include projects to reduce the exposure of students to poor air quality.
43. The recommendations from the School Air Quality Audits will require funding for implementation of the measures. The report is being finalised at present. When completed, the measures will be prioritised and costed for a program of implementation over the next few years, and will be subject to further reports requesting funding.

### **Consultation**

44. The Air Quality Action Plan was consulted with the statutory organisations and the public during 2022 and approved by Cabinet in December 2022. There are several measures in the Air Quality Action Plan to continue improving the air quality around schools in the Borough.
45. The work of improving air quality in the Borough around schools involves several teams in the Council namely
  - Climate Change
  - Public Health
  - Highways
  - Education
  - Development Change
  - Property

This report has been consulted with the above – mentioned teams and their comments have been incorporated into this report.

## **SUPPLEMENTARY ADVICE FROM OTHER OFFICERS**

### **Director of Law and Governance**

46. The council's statutory duty to review and assess air quality in the borough and to take steps to improve local air quality are noted in paragraph 45 and the report further advises that the council has recently published its Air Quality Action Plan for the period from 2022 to 2027 which sets out the actions which are to be taken to reduce the effects of air pollution. There are no other specific legal implications arising from



this report.

### **Strategic Director of Finance and Governance (EL22/144)**

47. The strategic director of finance and governance notes the contents of this Schools Air Quality Report.
48. The strategic director of finance and governance also notes that there are potential resource implications in the report details which are yet to be determined and that the proposals will impact the council's future capital programme.
49. Officers' time and any other costs associated with these proposals will be contained within existing departmental revenue budgets.

### **Other officers**

#### **Director of Climate Change**

50. Climate change implications are set out at paragraphs 40 to 42 of the report.

#### **Director of Public Health**

51. The health effects of air pollution are well known, contributing to cardiovascular illnesses, respiratory illnesses, and cancer. These effects are experienced unequally, with children (as well as older people, and those with certain chronic illnesses) most affected.
52. Air quality, especially around schools, is a high priority for Public Health. As a result, the Public Health team is working with external partners and across the council to improve air quality.
53. Further information is available from Southwark's [Air Quality Joint Strategic Needs Assessment](#). This document provides an up-to-date, holistic understanding of air quality in the borough, and its impact on the health of local people.

#### **Director of Environment**

54. It is wholly appreciated that it requires cooperation, collaboration and partnership working across the council to address issues with air pollution, particularly outside schools. The Highways Division have introduced a range of measures outside schools including School Streets and school safety schemes which will contribute towards improving air quality and road safety, increasing active travel and a reduction in overall vehicle numbers. Details of schemes can be found in Appendix G.

**BACKGROUND DOCUMENTS**

Background Papers	Held At	Contact
Air Quality Action Plan 2023 to 2027	Online	Paul Newman Paul.newman@southwark.gov.uk
<a href="https://www.southwark.gov.uk/environment/air-quality/what-we-re-doing/air-quality-strategies-plans-and-letters">https://www.southwark.gov.uk/environment/air-quality/what-we-re-doing/air-quality-strategies-plans-and-letters</a>		

**APPENDICES**

No.	Title
Appendix A	Lists of Schools which have received a School Air Quality Audit and proximity air quality monitoring
Appendix B	Map and data - Southwark's Continuous Air Quality Monitoring Stations.
Appendix C	Map and data - Nitrogen Dioxide Diffusion Tube Survey
Appendix D	Breathe London Monitoring Data
Appendix E	LAEI 2019 Southwark Concentration Maps for NO <sub>2</sub> , PM <sub>10</sub> , & PM <sub>2.5</sub> .
Appendix F	GLA LAEI School data 2016 and 2019
Appendix G -	Highways School Street Schemes Programme 2022 -2023

## AUDIT TRAIL

<b>Lead Officer</b>	Anju Sidhu	
<b>Report Author</b>	Paul Newman	
<b>Version</b>	Version 11	
<b>Dated</b>	6 March 2022	
<b>Key Decision?</b>	No	
<b>CONSULTATION WITH OTHER OFFICERS / DIRECTORATES / CABINET MEMBER</b>		
<b>Officer Title</b>	<b>Comments Sought</b>	<b>Comments Included</b>
Director of Law and Governance	Yes	Yes
Strategic Director of Finance and Governance	Yes	Yes
Director of Education	Yes	N/A
Director of Environment	Yes	Yes
Director of Public Health	Yes	Yes
Director of Climate Change	Yes	Yes
Head of Sustainable Growth	Yes	N/A
Head of Property Services	Yes	N/A
<b>Cabinet Member</b>	Yes/No	Yes
<b>Date final report sent to Constitutional Team / Scrutiny Team</b>		6 April 2023

**Appendix A - Lists of Schools which have received a School Air Quality Audit and proximity air quality monitoring**

Albion Primary School
Ark Walworth Academy
Boutcher Church of England Primary School
Brunswick Park Primary School
Camelot Primary School
Cherry Garden School
City of London Academy (Southwark)
Cobourg Primary School
Comber Grove School
Crampton Primary
Crawford Primary School
Galleywall Primary
Grange Primary School
Highshore School
Ilderton Primary School
John Keats Primary School
John Ruskin Primary School
Michael Faraday School
Robert Browning Primary School
Snowsfields Primary School
St Francis Roman Catholic Primary School
St Saviour's and St Olave's Church of England School
Tower Bridge Primary School
Treasure House London CIC

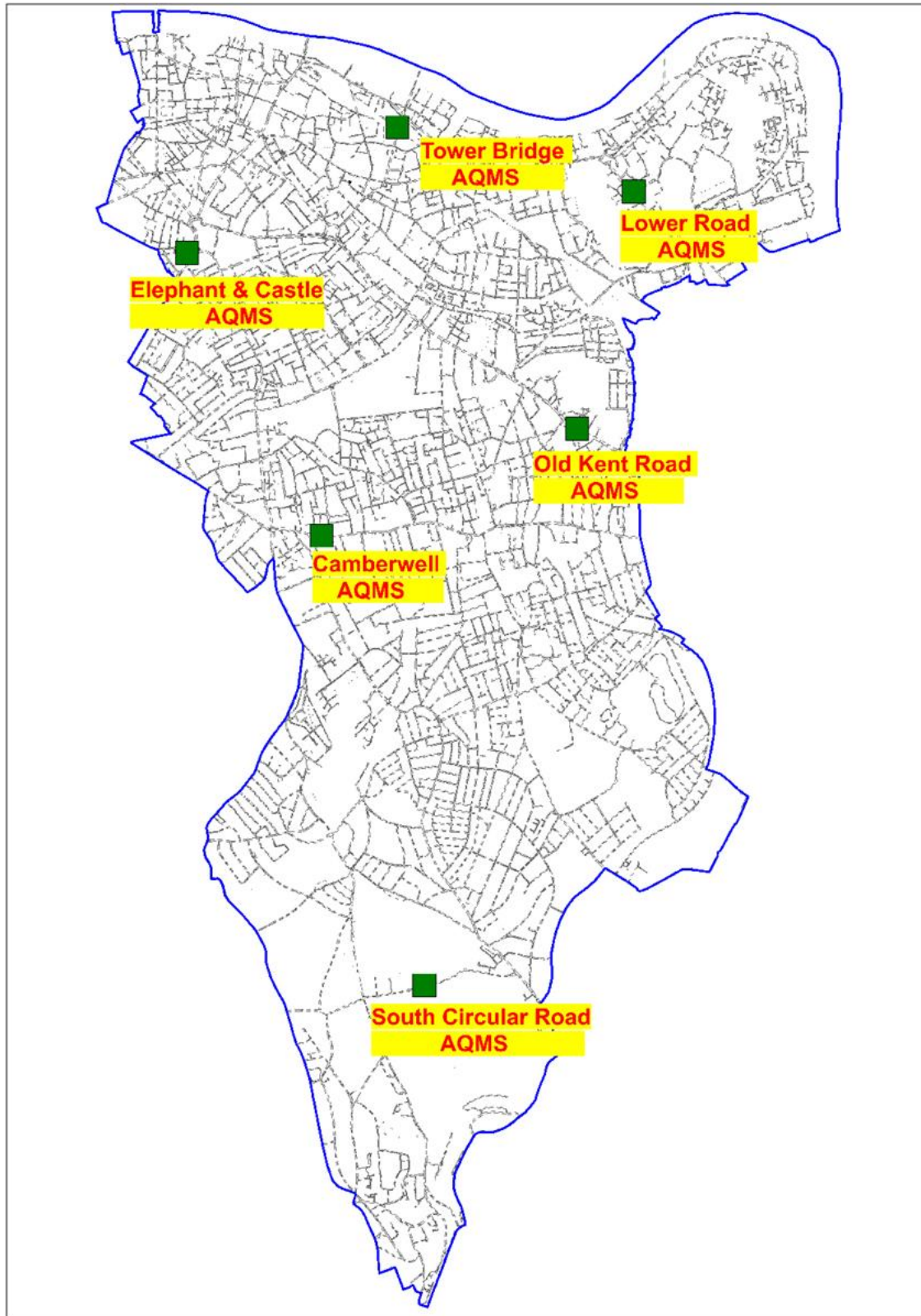
NB. Charlotte Sharman and Oliver Goldsmith Primary Schools received a school air quality audit from London Mayor's School Air Quality Audit Project.

The Kintore Way Nursery, Ann Bernadt Nursery and Nell Gwynn Nursey received a nursery air quality audit from London Mayor's Nursery Air Quality Audit Project.

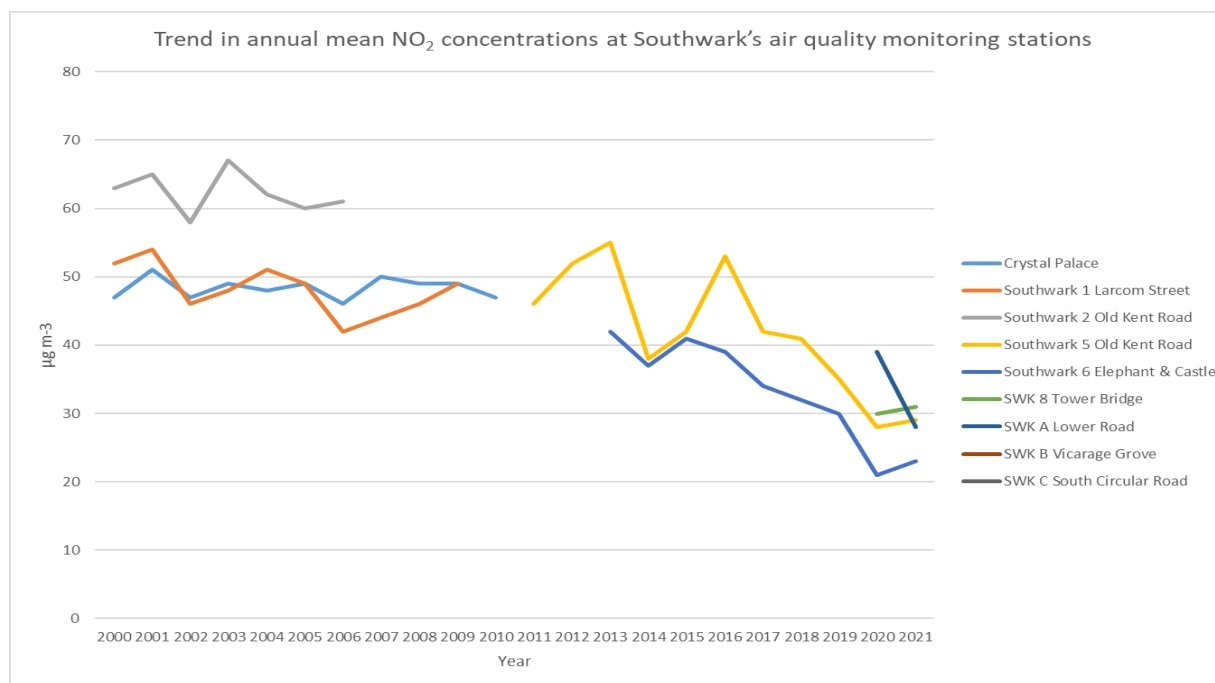
**Table 1 - Lists of Schools which have received a Southwark School Air Quality Audit**

Ark Globe Academy School
Bellenden Primary school
Beormund Primary school
Boucher Church of England Primary School
Charlotte Sharman Primary School
Cobourg Primary school
Dog Kennel Hill Primary School
Harris Girls' Academy (East Dulwich)
Ilderton Primary School
Kingsdale Foundation School
Notre Dame Roman Catholic Girls School
Oliver Goldsmith School
Peter Hills with St Mary's & St Paul's Primary school
St James Church of England Primary School
Tower Bridge Primary School

**Table 2 - Lists of Schools with air quality monitoring in proximity**  
**Appendix B – Map and data - Southwark’s Continuous Air Quality Monitoring Stations**

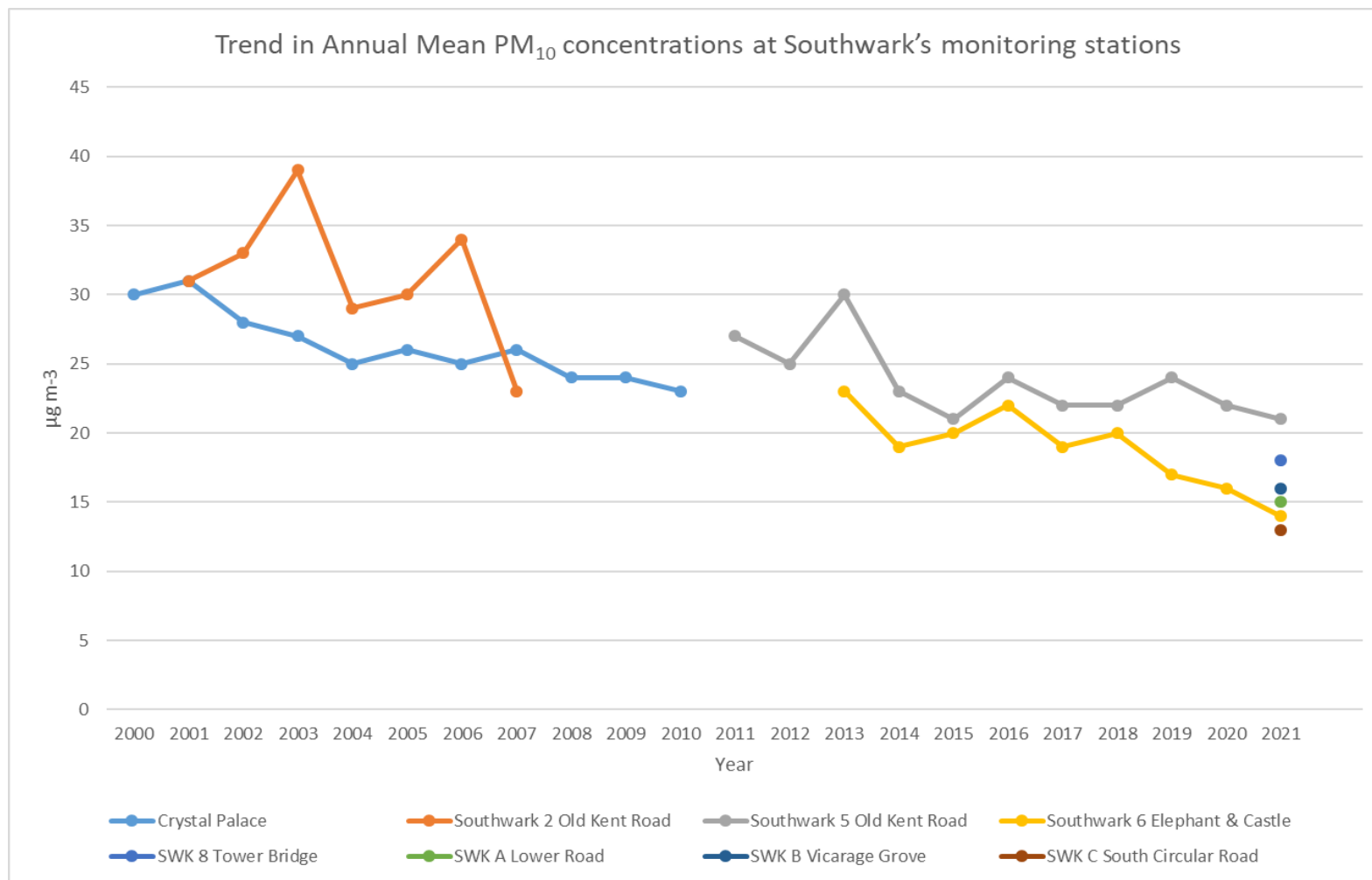


**Figure 1 Map of Southwark's Continuous Air Quality Monitoring Stations**



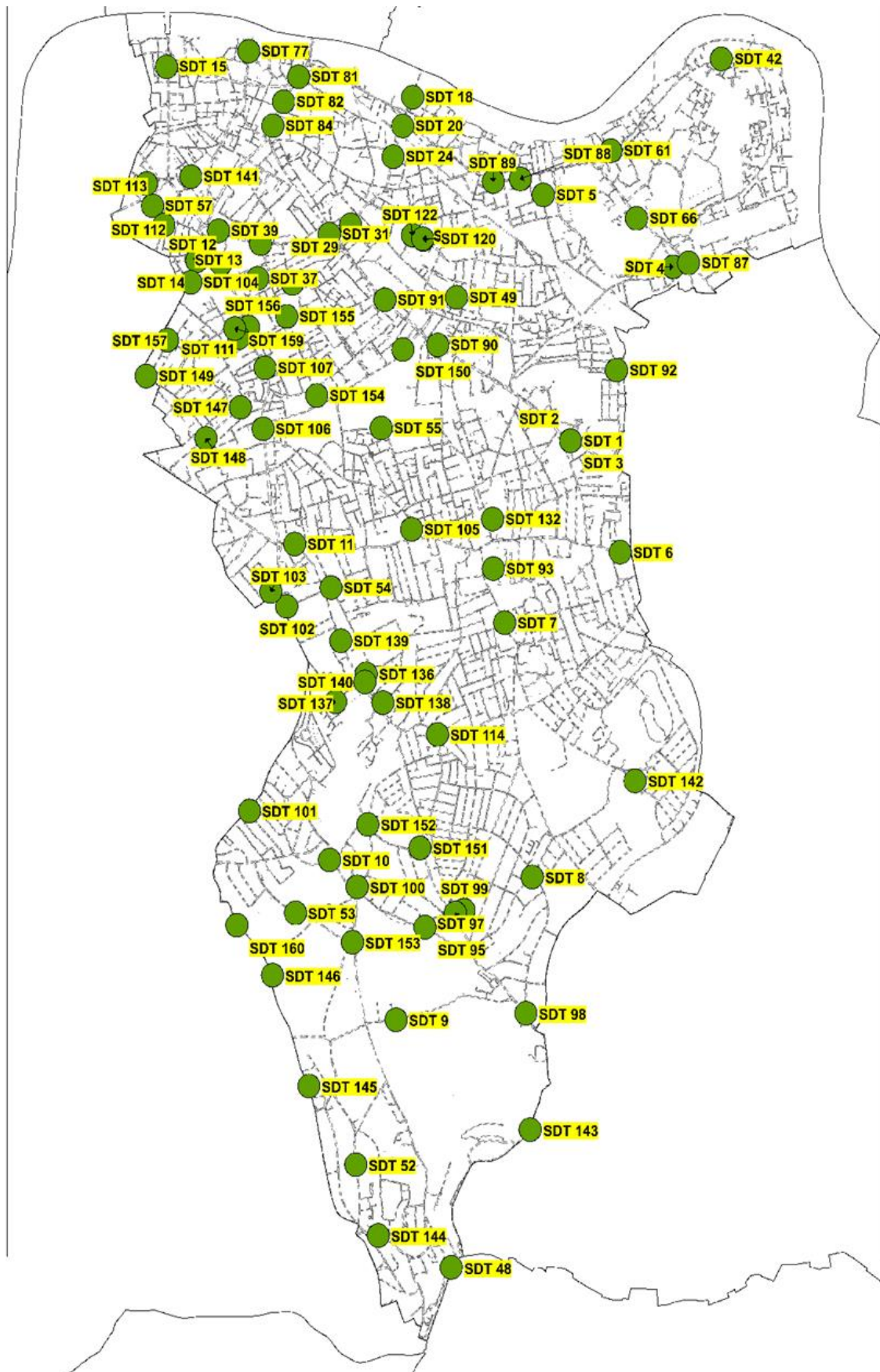
**Figure 2** Trend in annual mean NO<sub>2</sub> concentrations at Southwark's Air Quality Monitoring Stations





**Figure 3 Trend in annual mean PM<sub>10</sub> concentrations at Southwark's Air Quality Monitoring Stations**

**Appendix C – Map and data - Nitrogen Dioxide Diffusion Tube Survey**



### Annual Mean NO<sub>2</sub> Monitoring Results

Diffusion Tube ID	Location Description	Site Type	NO <sub>2</sub> Annual Mean Concentration (µg/m <sup>3</sup> )					
			2016	2017	2018	2019	2020	2021
SDT 20	Tower Bridge school fence Tower Bridge Road East side	Kerbside	<b><u>60.0</u></b>	<b>54.2</b>	<b>48.1</b>	<b>48.6</b>	32.9	36.1
SDT 31	Bricklayers Arms Roundabout - by St Olave's School, west side	Kerbside	<b>50.5</b>	<b>46.5</b>	<b>41.4</b>	38.6	27.5	31.9
SDT 42	Peter Hills With St Mary's & St Paul's Primary School - Salter Road	Kerbside	36.4	36.2	34.9	35.6	24.0	28.1
SDT 50	Bellenden School	Kerbside	<b>46.9</b>	33.3				
SDT 51	Harris Girl's School Homestall Road	Kerbside	29.7	27.6				
SDT 52	Kingsdale Foundation School Alleyn Park SE22	Kerbside	35.6	33.7	26.1	26.0	18.1	19.7
SDT 56	Coburg School Coburg Road SE17	Kerbside	34.9	31.3				
SDT 57	Notre Dame RC School	Kerbside	<b>51.6</b>	<b>44.0</b>	39.8	34.8	24.8	27.4
SDT 85	Lamppost No147 S4 85 Adjacent to Beormund Primary School Long Lane	Kerbside	<b>57.2</b>	<b>48.1</b>				
SDT 89	School Fence St James' CoE Primary School Jamaica Road	Roadside		<b>42.0</b>	<b>40.8</b>	35.8	25.2	
SDT 92	School Fence Ilderton Road SE16	Roadside		<b>57.6</b>	<b>48.7</b>	<b>45.2</b>	27.0	32.1
SDT 105	Lamppost 2229 - 41 adjacent to Oliver Goldsmith School Southampton Way	Kerbside		<b>44.2</b>	39.8	35.6	24.7	29.9
SDT 110	Globe Academy School Harper Road Lamppost 1422 - 06	Kerbside		<b>41.3</b>	33.3			
SDT 120	Grange Road adjacent to Boucher CoE Primary School	Kerbside				32.1	19.9	23.8
SDT 121	Front Playground - Boucher CoE Primary School	Background				30.4	18.2	20.7
SDT 122	Rear entrance to Boucher CoE Primary School	Kerbside				27.0	16.9	20.6
SDT 136	Lamppost 2160- 12 adjacent to Dog Kennel Hill School	Kerbside				33.8	20.2	23.9
SDT 140	Post near the Dog kennel Hill school entrance on Dog Kennel Hill	Kerbside				31.3	22.9	24.7

**Table 3 Nitrogen Dioxide Diffusion Tube Survey Monitoring Data adjacent to schools 2016 - 2021**

**Notes:**

The annual mean concentrations are presented as µg m<sup>-3</sup>.

Exceedances of the NO<sub>2</sub> 40 µg m<sup>-3</sup> annual mean Air Quality Objective are shown in **bold**.

NO<sub>2</sub> annual means in excess of 60 µg m<sup>-3</sup>, indicating a potential exceedance of the NO<sub>2</sub> hourly mean AQS objective are shown in **bold and underlined**.

Diffusion tube mean averages are bias corrected.

All means have been 'annualised' in accordance with LLAQM Technical Guidance if valid data capture for the calendar year is less than 75% and greater than 25%.

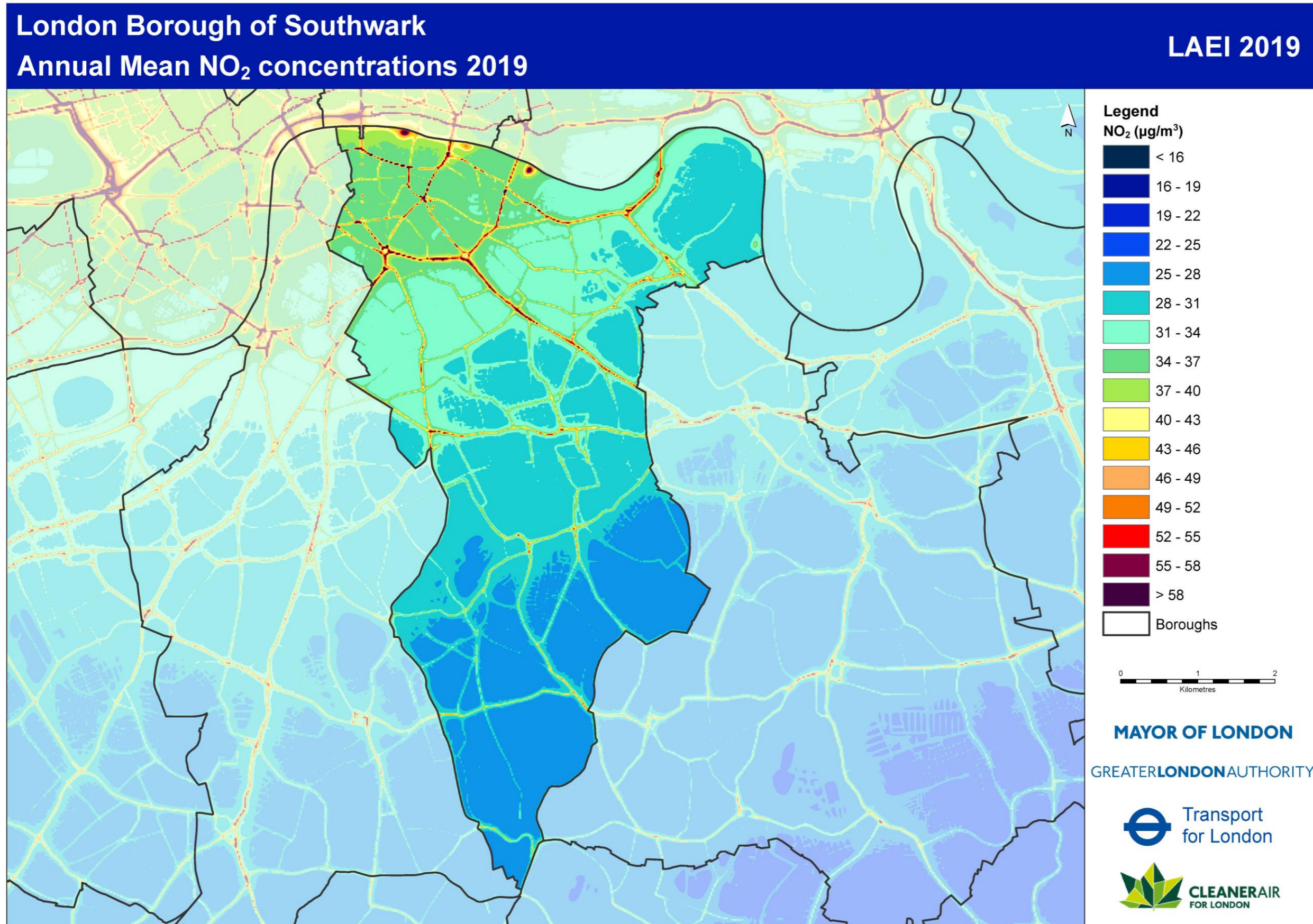
Results have been distance corrected where applicable

**Appendix D – Breathe London Monitoring Data**

	<b>NO<sub>2</sub> Annual Mean Concentration (µg/m<sup>3</sup>)</b>		<b>PM<sub>2.5</sub> Annual Mean Concentration (µg/m<sup>3</sup>)</b>	
	<b>2021</b>	<b>2022</b>	<b>2021</b>	<b>2022</b>
Charlotte Sharman Primary School	25.9	25.6	8.6	8.8
Tower Bridge Primary School	32.4	34.3	10.9	10.6
Oliver Goldsmith Primary School	27.0	26.7	8.8	9.1



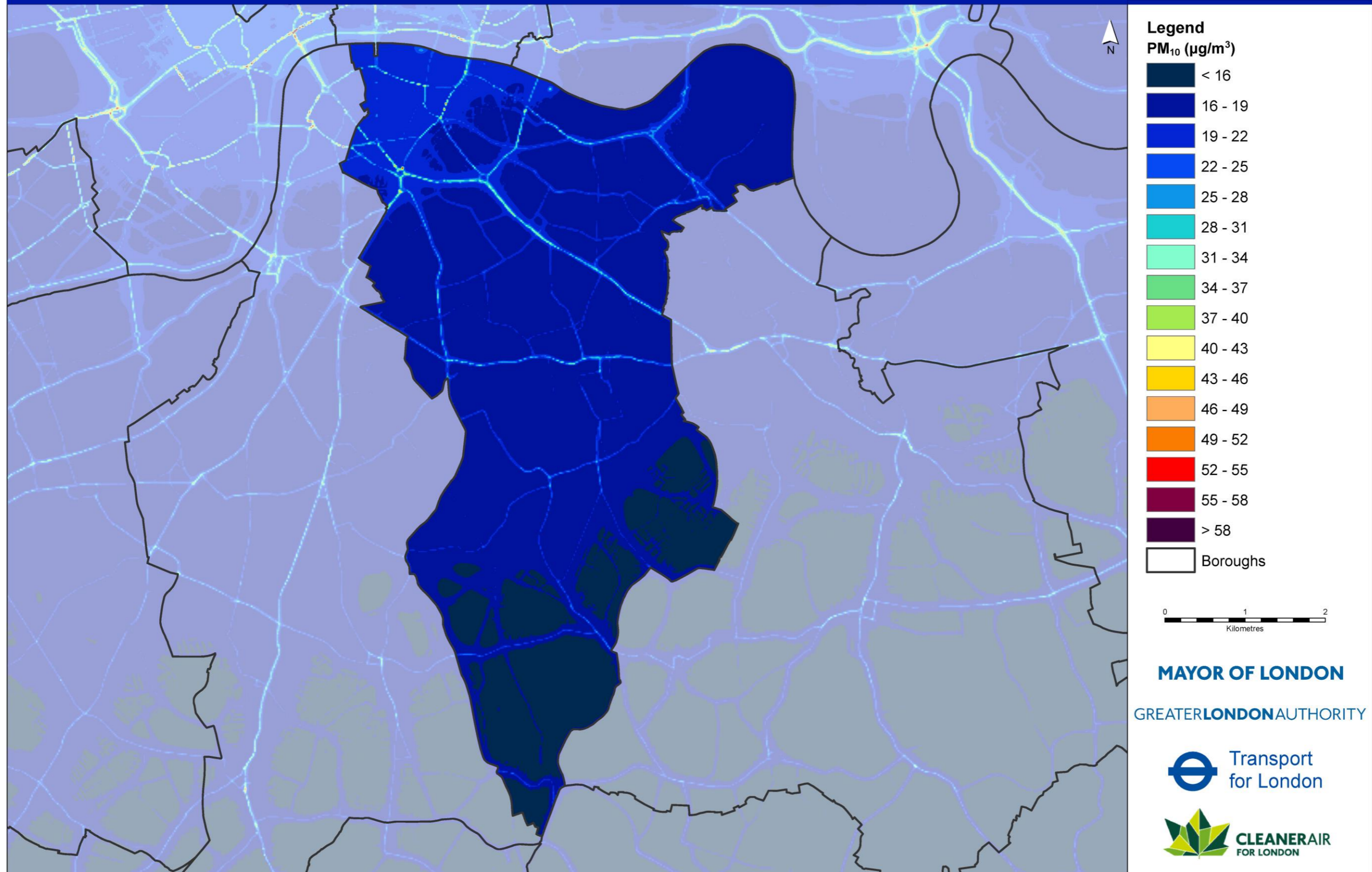
Appendix E – LAEI 2019 Southwark Concentration Maps for NO<sub>2</sub>, PM<sub>10</sub>, & PM<sub>2.5</sub>.





# London Borough of Southwark Annual Mean PM<sub>10</sub> concentrations 2019

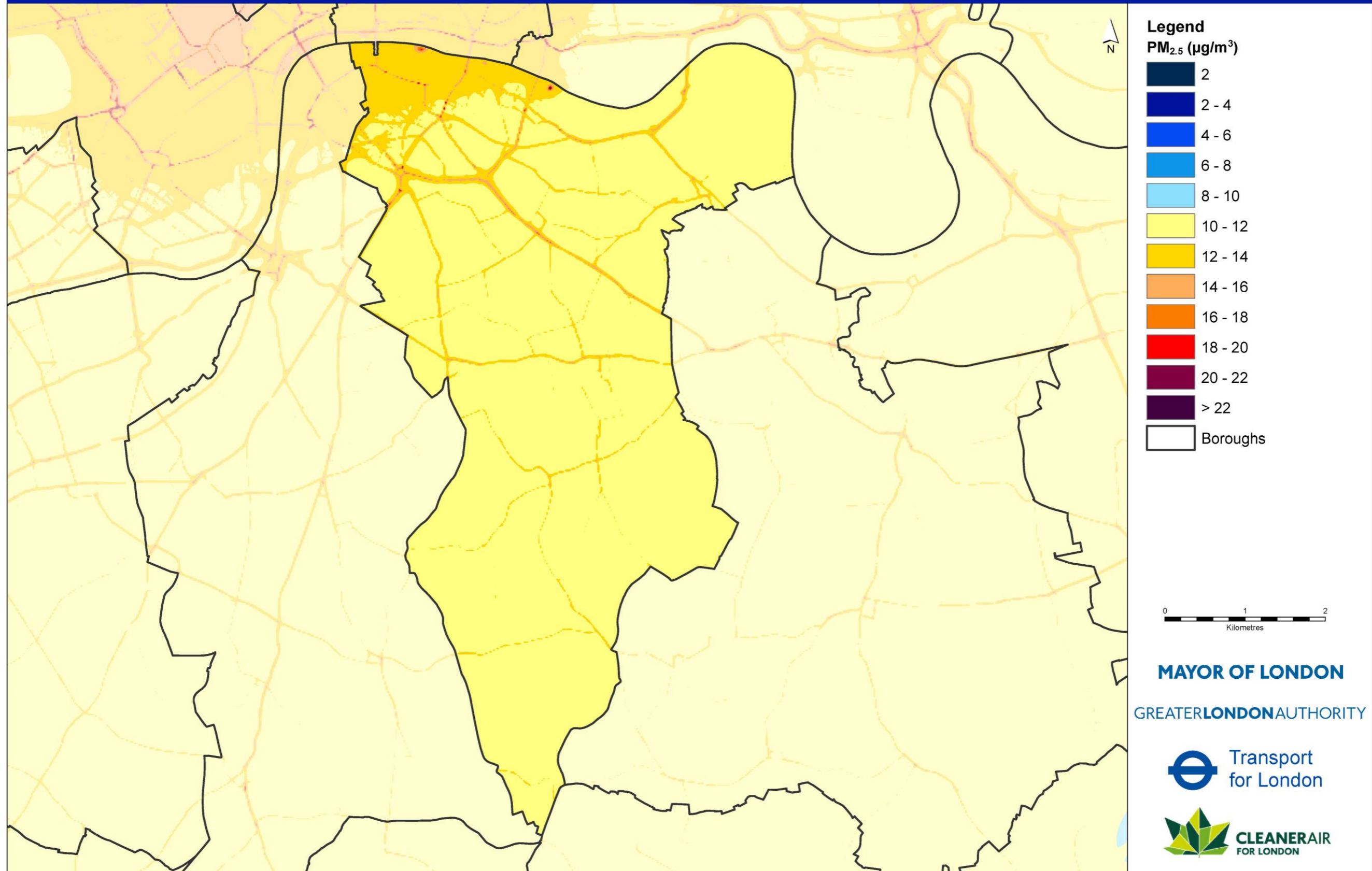
## LAEI 2019





# London Borough of Southwark Annual Mean PM<sub>2.5</sub> concentrations 2019

## LAEI 2019



## Appendix F - GLA LAEI School data 2016 and 2019

Establishment Name	Type of School Establishment	Phase of Education	Nursery Provision	Postcode	NO <sub>2</sub> LAEI 2016	Above NO <sub>2</sub> Limit LAEI 2016	NO <sub>2</sub> LAEI 2019	Above NO <sub>2</sub> Limit LAEI 2019	PM <sub>2.5</sub> LAEI 2016	PM <sub>2.5</sub> LAEI 2109	Above PM <sub>2.5</sub> Limit
St George's Cathedral Catholic Primary	Voluntary aided	Primary	Yes	SE1 6HR	52.0	Yes	38.3	No	15.4	12.4	Yes
Saint Joseph's Catholic Primary , the Borough	Voluntary aided	Primary	Yes	SE1 1NJ	50.7	Yes	39.0	No	15.2	12.5	Yes
Tower Bridge Primary	Community	Primary	Yes	SE1 2AE	50.5	Yes	38.7	No	15.1	12.3	Yes
The Cathedral of St Saviour and St Mary Overie	Voluntary aided	Primary	Yes	SE1 1HG	50.4	Yes	38.4	No	15.2	12.5	Yes
St Jude's Church of England Primary	Voluntary aided	Primary	Yes	SE1 6HA	49.3	Yes	36.0	No	15.1	12.1	Yes
Grange Primary	Community	Primary	Yes	SE1 4RP	48.0	Yes	38.6	No	14.8	12.2	Yes
Victory Primary	Community	Primary	Yes	SE17 1PT	47.6	Yes	36.0	No	14.8	11.9	Yes
Friars Primary Foundation	Foundation	Primary	Yes	SE1 0RF	47.6	Yes	35.7	No	14.9	12.1	Yes
Charlotte Sharman Primary	Foundation	Primary	Yes	SE11 4SN	47.4	Yes	35.2	No	14.9	11.9	Yes
Townsend Primary	Community	Primary	Yes	SE17 1HJ	47.4	Yes	38.6	No	14.7	12.3	Yes
St James' Church of England Primary	Voluntary aided	Primary	Yes	SE16 4SU	45.6	Yes	37.1	No	14.5	12.0	Yes
Albion Primary	Community	Primary	Yes	SE16 7JD	45.3	Yes	36.3	No	14.6	11.9	Yes
Snowsfields Primary	Community	Primary	Yes	SE1 3TD	44.9	Yes	34.5	No	14.5	11.8	Yes
St Peter's Church of England Primary	Voluntary aided	Primary	Yes	SE17 2HH	44.7	Yes	33.7	No	14.4	11.6	Yes
English Martyrs' Roman Catholic Primary	Voluntary aided	Primary	Yes	SE17 1QD	44.2	Yes	33.8	No	14.4	11.6	Yes
St Joseph's Roman Catholic Primary	Voluntary aided	Primary	Yes	SE16 4UP	44.1	Yes	36.1	No	14.4	11.9	Yes
Crampton Primary	Community	Primary	No	SE17 3LE	43.6	Yes	33.5	No	14.4	11.6	Yes
John Keats Primary	Free s	Primary	Yes	SE16 3FN	43.3	Yes	33.4	No	14.1	11.4	Yes
Harris Primary Free Peckham	Free s	Primary	No	SE15 5DZ	43.2	Yes	33.2	No	14.0	11.5	Yes
Keyworth Primary	Community	Primary	Yes	SE17 3TR	43.1	Yes	33.0	No	14.3	11.5	Yes
Oliver Goldsmith Primary	Community	Primary	Yes	SE5 8UH	43.0	Yes	33.1	No	14.0	11.5	Yes
St James the Great Roman Catholic Primary	Voluntary aided	Primary	Yes	SE15 5LP	42.8	Yes	32.9	No	13.9	11.5	Yes
Rotherhithe Primary	Community	Primary	Yes	SE16 2PL	42.6	Yes	34.1	No	14.1	11.5	Yes
Boutcher Church of England Primary	Voluntary aided	Primary	No	SE1 3BW	42.6	Yes	33.7	No	14.2	11.6	Yes
Robert Browning Primary	Community	Primary	Yes	SE17 1DQ	42.6	Yes	32.3	No	14.3	11.4	Yes
St Joseph's Catholic Primary	Voluntary aided	Primary	Yes	SE16 2TY	42.1	Yes	33.0	No	14.1	11.4	Yes
Phoenix Primary	Community	Primary	Yes	SE1 5JT	42.0	Yes	33.2	No	14.0	11.5	Yes
Comber Grove	Community	Primary	Yes	SE5 0LQ	41.9	Yes	32.4	No	14.1	11.4	Yes
Riverside Primary	Community	Primary	Yes	SE16 4PS	41.8	Yes	33.1	No	14.1	11.4	Yes
Surrey Square Primary	Academy converter	Primary	Yes	SE17 2JY	41.8	Yes	32.5	No	14.1	11.4	Yes



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St Paul's Church of England Primary	Academy sponsor led	Primary	Yes	SE17 3DT	41.7	Yes	32.1	No	14.2	11.4	Yes
Peter Hills with St Mary's and St Paul's CofE Primary	Voluntary aided	Primary	Yes	SE16 5ED	41.7	Yes	31.4	No	14.1	11.2	Yes
John Donne Primary	Academy converter	Primary	Yes	SE15 2SW	41.7	Yes	31.1	No	13.8	11.3	Yes
John Ruskin Primary and Language Classes	Community	Primary	Yes	SE5 0PQ	41.7	Yes	31.9	No	14.1	11.3	Yes
Michael Faraday	Community	Primary	Yes	SE17 2HR	41.7	Yes	31.7	No	14.1	11.3	Yes
Ilderton Primary	Community	Primary	Yes	SE16 3LA	41.7	Yes	30.9	No	13.9	11.1	Yes
St Joseph's Catholic Junior	Voluntary aided	Primary	No	SE5 0TS	41.6	Yes	32.2	No	14.1	11.3	Yes
St Joseph's Catholic Infants	Voluntary aided	Primary	No	SE5 0TS	41.6	Yes	32.2	No	14.1	11.3	Yes
Pilgrims' Way Primary	Community	Primary	Yes	SE15 1EF	41.3	Yes	32.2	No	13.9	11.4	Yes
Kintore Way Nursery and Children's Centre	Local authority nursery	Nursery	Yes	SE1 3BW	43.1	Yes	33.9	No	14.3	11.6	Yes
Ann Bernadt Nursery	Local authority nursery	Nursery	Yes	SE15 6DT	40.2	Yes	31.7	No	13.7	11.2	Yes
Dulwich Wood Nursery	Local authority nursery	Nursery	Yes	SE21 8QS	34.4	No	26.2	No	13.0	10.4	Yes
Nell Gwynn Nursery	Local authority nursery	Nursery	Yes	SE15 2TT	42.8	Yes	32.9	No	13.9	11.5	Yes
Grove Children & Family Centre	Local authority nursery	Nursery	Yes	SE15 6BY	40.2	Yes	30.8	No	13.8	11.1	Yes
St George's Church of England Primary	Voluntary aided	Primary	No	SE5 7TF	40.8	Yes	31.6	No	13.9	11.2	Yes
Crawford Primary	Community	Primary	Yes	SE5 9NF	40.8	Yes	30.7	No	13.9	11.2	Yes
Galleywall Primary	Free s	Primary	No	SE16 3PB	40.5	Yes	31.5	No	13.8	11.2	Yes
Goose Green Primary and Nursery	Academy converter	Primary	Yes	SE22 8HG	40.4	Yes	31.9	No	13.8	11.4	Yes
Brunswick Park Primary	Community	Primary	Yes	SE5 7QH	40.3	Yes	31.1	No	13.8	11.2	Yes
St Saviour's and St Olave's Church of England	Voluntary aided	Secondary	No	SE1 4AN	50.4	Yes	41.2	Yes	15.0	12.6	Yes
The St Thomas the Apostle College	Voluntary aided	Secondary	No	SE15 2EB	37.4	No	29.0	No	13.4	10.9	Yes
Notre Dame Roman Catholic Girls'	Voluntary aided	Secondary	No	SE1 6EX	49.9	Yes	36.3	No	15.1	12.1	Yes
Dulwich College	Other independent	Not applicable	Yes	SE21 7LD	36.9	No	27.6	No	13.3	10.6	Yes
Dulwich Prep London	Other independent	Not applicable	Yes	SE21 7AA	35.0	No	26.2	No	13.1	10.4	Yes
James Allen's Girls'	Other independent	Not applicable	No	SE22 8TE	38.9	No	29.6	No	13.6	11.0	Yes
Alleyn's	Other independent	Not applicable	No	SE22 8SU	37.9	No	28.4	No	13.5	10.8	Yes
Herne Hill	Other independent	Not applicable	Yes	SE24 9LY	39.5	No	29.2	No	13.7	11.0	Yes

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Highshore	Community special	Not applicable	N/A	SE5 0TW	43.9	Yes	34.5	No	14.4	11.7	Yes
Evelina Hospital	Community special	Not applicable	Yes	SE1 7EH	48.5	Yes	37.3	No	15.1	12.2	Yes
Bethlem and Maudsley Hospital	Community special	Not applicable	N/A	SE5 8AZ	29.6	No	31.5	No	12.4	11.3	Yes
Haymerle	Community special	Not applicable	N/A	SE15 6SY	39.2	No	30.4	No	13.6	11.0	Yes
Beormund Primary	Community special	Not applicable	N/A	SE1 3PS	46.6	Yes	35.8	No	14.7	12.0	Yes
Tuke	Community special	Not applicable	N/A	SE15 6ER	39.2	No	30.3	No	13.6	11.0	Yes
Cherry Garden	Community special	Not applicable	Yes	SE15 5BB	43.6	Yes	30.5	No	14.2	11.1	Yes
St Francis RC Primary	Voluntary aided	Primary	Yes	SE15 1RQ	39.9	No	31.2	No	13.7	11.1	Yes
Cobourg Primary	Community	Primary	Yes	SE5 0JD	39.8	No	30.7	No	13.8	11.1	Yes
Southwark Park Primary	Community	Primary	Yes	SE16 2JH	39.7	No	31.2	No	13.8	11.1	Yes
Hollydale Primary	Community	Primary	No	SE15 2AR	39.5	No	30.1	No	13.6	11.0	Yes
Angel Oak Academy	Academy sponsor led	Primary	Yes	SE15 6FL	39.4	No	30.4	No	13.7	11.0	Yes
Bellenden Primary	Community	Primary	Yes	SE15 4JP	39.4	No	30.2	No	13.6	11.1	Yes
Alfred Salter Primary	Community	Primary	Yes	SE16 7LP	39.3	No	30.1	No	13.8	11.0	Yes
Camelot Primary	Community	Primary	Yes	SE15 1QP	39.2	No	30.5	No	13.6	11.0	Yes
Dog Kennel Hill	Community	Primary	Yes	SE22 8AB	39.2	No	30.3	No	13.7	11.1	Yes
Dulwich Village Church of England Infants'	Voluntary aided	Primary	No	SE21 7AL	39.1	No	28.5	No	13.5	10.8	Yes
St John's Roman Catholic Primary	Voluntary aided	Primary	Yes	SE16 6SD	38.8	No	29.9	No	13.7	11.0	Yes
Harris Primary Academy Peckham Park	Academy converter	Primary	Yes	SE15 5TD	38.8	No	30.1	No	13.5	11.0	Yes
Harris Primary Academy East Dulwich	Free s	Primary	No	SE22 8HA	38.5	No	29.1	No	13.6	11.0	Yes
Redriff Primary	Academy converter	Primary	Yes	SE16 5LQ	38.5	No	29.7	No	13.6	10.9	Yes
Rye Oak Primary	Community	Primary	Yes	SE15 3PD	38.3	No	29.9	No	13.5	11.1	Yes
St Mary Magdalene Church of England Primary	Voluntary aided	Primary	No	SE15 3RA	38.1	No	30.1	No	13.5	11.0	Yes
St Francesca Cabrini Primary	Voluntary aided	Primary	Yes	SE23 3LE	38.1	No	29.1	No	13.5	10.9	Yes
Judith Kerr Primary	Free s	Primary	No	SE24 9JE	37.7	No	29.2	No	13.5	11.0	Yes
Dulwich Hamlet Junior	Academy converter	Primary	No	SE21 7AL	37.5	No	28.0	No	13.4	10.7	Yes
St John's and St Clement's Church of England Primary	Voluntary aided	Primary	No	SE15 4DY	37.3	No	28.6	No	13.5	10.9	Yes
The Belham Primary	Free s	Primary	No	SE15 4DG	37.2	No	28.5	No	13.5	10.9	Yes

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St Anthony's Catholic Primary	Voluntary aided	Primary	Yes	SE22 0LA	37.2	No	28.4	No	13.4	10.8	Yes
Bessemer Grange Primary	Community	Primary	Yes	SE5 8HP	36.6	No	27.8	No	13.4	10.8	Yes
Heber Primary	Community	Primary	Yes	SE22 9LA	36.2	No	27.6	No	13.3	10.7	Yes
Ivydale Primary	Community	Primary	Yes	SE15 3BU	36.1	No	27.4	No	13.2	10.6	Yes
Goodrich Community Primary	Community	Primary	Yes	SE22 0EP	35.2	No	26.9	No	13.2	10.6	Yes
Dulwich Wood Primary	Community	Primary	No	SE21 8NS	34.4	No	26.2	No	13.0	10.4	Yes
Cavendish	Other independent special	Not applicable	No	SE16 2PA	42.7	Yes	34.3	No	14.1	11.5	Yes
Harris Academy Bermondsey	Academy sponsor led	Secondary	N/A	SE16 3TZ	41.9	Yes	33.5	No	14.1	11.5	Yes
Harris Girls' Academy East Dulwich	Academy sponsor led	Secondary	N/A	SE22 0NR	36.5	No	27.0	No	13.3	10.6	Yes
St John's and St Clement's Primary Co Hearing Impaired Unit	Miscellaneous	Not applicable	N/A	SE15 4DY	37.3	No	28.6	No	13.5	10.9	Yes
Camberwell College of Arts	Miscellaneous	Not applicable	N/A	SE5 8UF	43.0	Yes	32.3	No	14.0	11.4	Yes
London College of Printing & Distributive Trades	Miscellaneous	Not applicable	N/A	SE1 6SB	55.9	Yes	42.0	Yes	15.6	12.8	Yes
The Hospital and Home Tuition Sick Children's Service	Miscellaneous	Not applicable	N/A	SE5 9RS	44.5	Yes	31.4	No	14.2	11.3	Yes
London South Bank University	Higher education institutions	Not applicable	N/A	SE1 0AA	48.5	Yes	36.3	No	14.9	12.1	Yes
The Villa	Other independent	Not applicable	Yes	SE15 5AH	38.8	No	29.3	No	13.6	10.9	Yes
City of London Academy (Southwark)	Academy sponsor led	Secondary	N/A	SE1 5LA	41.2	Yes	32.1	No	13.9	11.3	Yes
Harris Academy Peckham	Academy sponsor led	Secondary	N/A	SE15 5DZ	41.2	Yes	31.9	No	13.8	11.3	Yes
From Boyhood To Manhood Foundation	Other independent	Not applicable	No	SE15 6EF	39.9	No	30.8	No	13.7	11.1	Yes
Southwark Inclusive Learning Service (Sils)	Pupil referral unit	Not applicable	N/A	SE15 6LF	41.1	Yes	31.1	No	13.8	11.1	Yes
Ark Walworth Academy	Academy sponsor led	Secondary	N/A	SE1 5UJ	43.0	Yes	32.9	No	14.2	11.4	Yes
London Christian	Other independent	Not applicable	Yes	SE1 4JU	50.8	Yes	38.4	No	15.1	12.3	Yes
Ark Globe Academy	Academy sponsor led	All-through	Yes	SE1 6AG	44.6	Yes	35.6	No	14.5	11.8	Yes
Harris Boys' Academy East Dulwich	Academy sponsor led	Secondary	N/A	SE22 0AT	38.6	No	28.9	No	13.6	10.9	Yes
The Charter North Dulwich	Academy converter	Secondary	N/A	SE24 9JH	37.5	No	28.7	No	13.5	10.9	Yes

Establishment Name	Type of School Establishment	Phase of Education	Nursery Provision	Postcode	NO <sub>2</sub> LAEI 2016	Above NO <sub>2</sub> Limit LAEI 2016	NO <sub>2</sub> LAEI 2019	Above NO <sub>2</sub> Limit LAEI 2019	PM <sub>2.5</sub> LAEI 2016	PM <sub>2.5</sub> LAEI 2109	Above PM <sub>2.5</sub> Limit
Kingsdale Foundation	Academy converter	Secondary	N/A	SE21 8SQ	34.7	No	26.1	No	13.1	10.4	Yes
Sacred Heart Catholic	Academy converter	Secondary	No	SE5 0RP	43.2	Yes	32.6	No	14.2	11.4	Yes
St Michael's Catholic College	Academy converter	Secondary	No	SE16 4UN	41.9	Yes	33.2	No	14.1	11.5	Yes
Compass Southwark	Free s	Secondary	No	SE16 2BT	40.9	Yes	31.9	No	13.9	11.2	Yes
Ark All Saints Academy	Academy sponsor led	Secondary	No	SE5 0UB	43.8	Yes	34.3	No	14.4	11.6	Yes
Newlands Academy	Academy special converter	Not applicable	N/A	SE15 3AZ	35.7	No	27.5	No	13.2	10.6	Yes
South Bank University Academy	Academy sponsor led	Secondary	No	SE17 2TP	42.6	Yes	32.0	No	14.2	11.3	Yes
Treasure House (London) CIC	Other independent special	Not applicable	N/A	SE15 1JF	42.7	Yes	34.3	No	14.0	11.7	Yes
PhoenixPlace	Other independent special	Not applicable	N/A	SE5 0NA	43.3	Yes	34.0	No	14.3	11.6	Yes
The Charter East Dulwich	Free s	Secondary	No	SE22 8RB	38.2	No	29.4	No	13.6	11.0	Yes
The Autism Project - CareTrade	Special post 16 institution	Not applicable	N/A	SE1 6FE	52.7	Yes	38.1	No	15.4	12.3	Yes
Bacon's College	Academy sponsor led	Secondary	No	SE16 6AT	39.3	No	30.3	No	13.8	11.0	Yes
Spa , Bermondsey	Academy special converter	Not applicable	N/A	SE1 5RN	41.5	Yes	32.6	No	14.0	11.4	Yes
Spa Camberwell	Free s special	Not applicable	No			No	32.1	No		11.3	Yes
Haberdashers' Aske's Borough Academy	Free s	Secondary	No			No	36.3	No		12.1	Yes
Arco Academy	Other independent	Not applicable	No			No	34.2	No		11.6	Yes
THE Bridge Special Education Need	Other independent special	Not applicable	N/A			No	38.3	No		12.3	Yes
Charles Dickens Primary	Academy converter	Primary	Yes			No	36.4	No		12.1	Yes
The Park College	Special post 16 institution	Not applicable	N/A			No	35.3	No		11.8	Yes
Lyndhurst Primary	Academy converter	Primary	Yes			No	30.2	No		11.1	Yes



Appendix G – Highways School Street Schemes Programme 2022 -2023

# Jan 2023

## School Streets Schemes

**Project Lead:**

George Mellish

**Project Overview:**

Making the roads around local school safer and less congested

**Finance Summary**

22/23 Capital Budget:  
£ 1,029,373

Total Capital Spend:  
£ 161,398

**Completions Summary**

School Streets target 22/23:  
3

School Streets completed 22/23:  
0 (+0)

% to completion target:  
- %

Total School Streets:  
23 (+0)

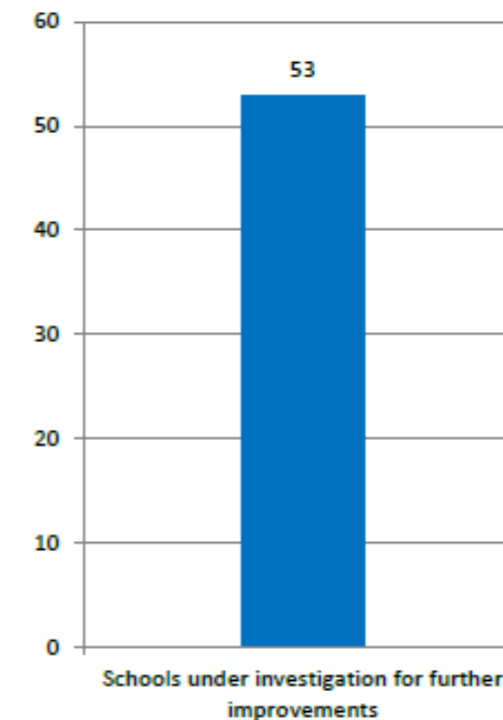
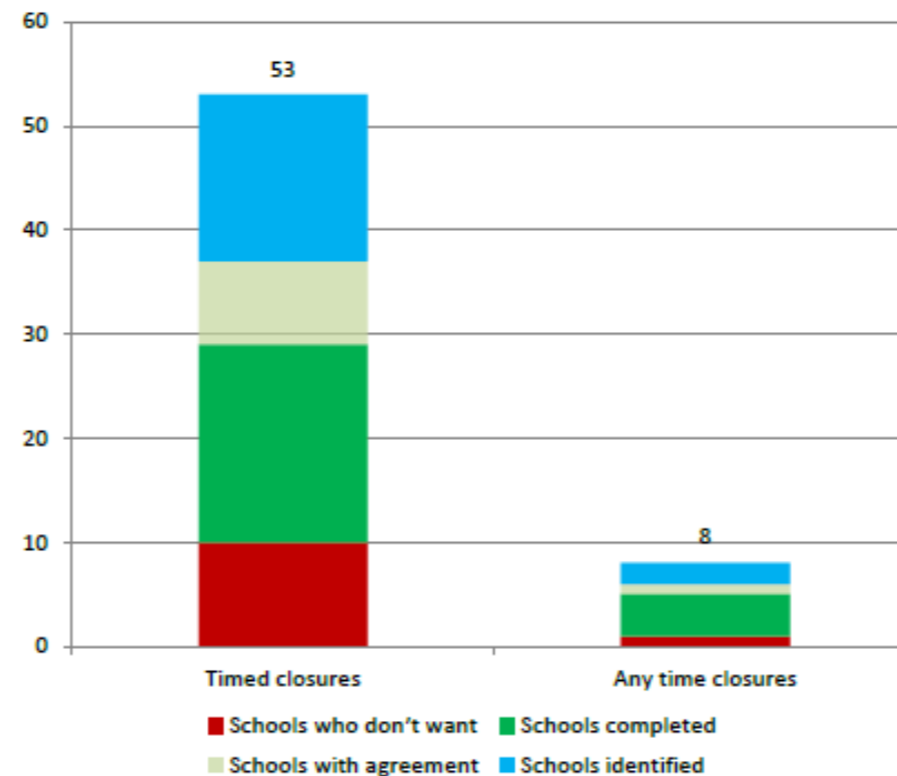
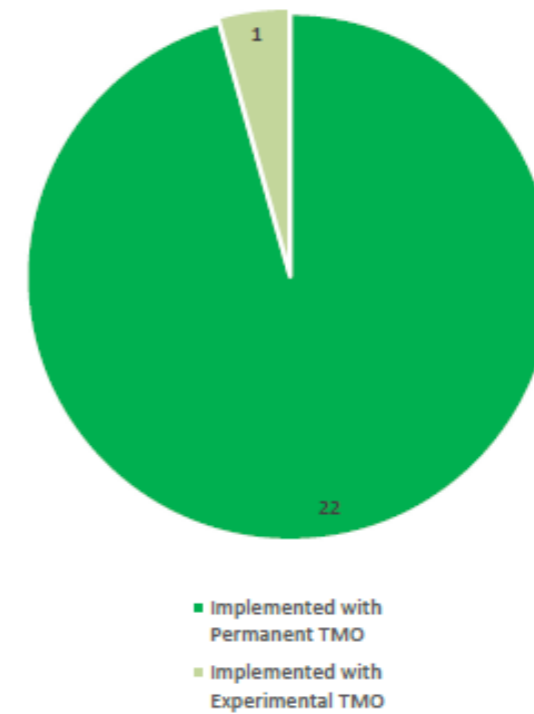
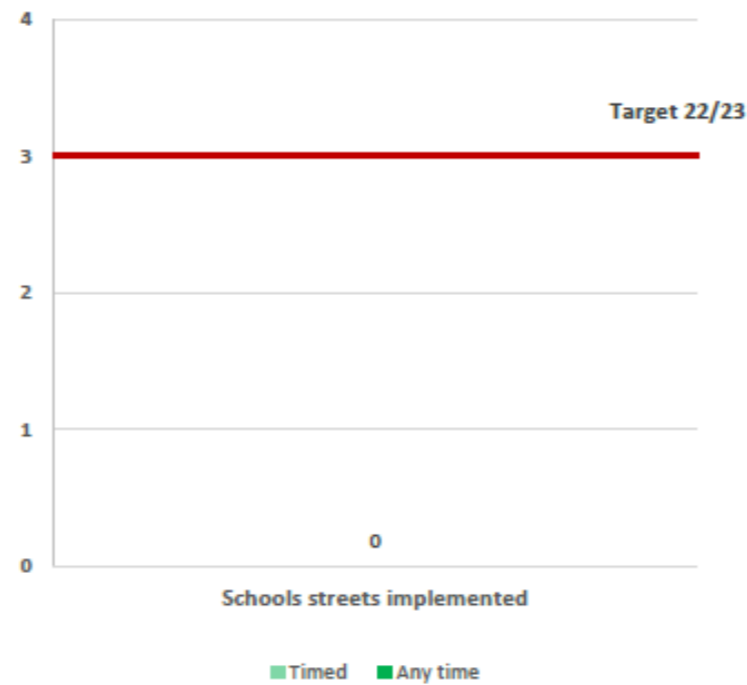
**Commentary:**

Statutory consultation in December for 4 new schools has been completed. Notice of making for 2 schools ("St John's/St Clement's CE Primary School" and "Goodrich Primary School") has been advertised in January.

One TMO need to be re-advertised due to request to change of time from the school ("James Allen's Girls School").

We received objection in 1 school ("John Donne Primary School"), decision to be made in March.

We shortlisted 19 schools based on road safety issues, air quality, deprivation, obesity, STARS and other factors. We are preparing the feasibility study for each location. Schools will be contact beginning next year.



Jan 2023

# School Streets Schemes

School	Measure	Timed	Any Time
Albion Primary School		Permanent	
Alfred Salter Primary School		Permanent	
Alleyn's Independent School		✓	✓
Alleyns Junior School		Permanent	✓
Angel Oak Academy		✓	
ARK All Saints Academy			
ARK Globe Academy			
Bacons City Technology College		✓	
Bellenden Primary School			Permanent
Beormund Primary School			
Bessemer Grange Primary School		Permanent	
Boucher Church of England Primary School			
Brunswick Park Primary School		Permanent	
Camelot Primary School		✓	Experimental
Cavendish School			
Charles Dickens		Permanent	
Charlotte Sharman Foundation Primary School			
Cobourg Primary School			
Comber Grove Primary School			Permanent
Compass Free School		✓	
Crampton Primary School		x	
Crawford Primary School Gypsy Hill Fed		Permanent	
Dog Kennel Hill Primary School			
Dulwich College			
Dulwich College Junior School			
Dulwich College Kindergarten School - DUCKS			
Dulwich College Prep (Yrs 7 & 8)		✓	
Dulwich College Prep School (nursery to yr 8)		✓	
Dulwich Hamlet Junior School			
Dulwich Village CE Infants			
Dulwich Wood Primary		✓	
English Martyr's Catholic Primary School			
Friars Primary School			
Galleywall Primary			
Globe Academy			
Goodrich Primary School			✓
Goose Green Primary School		Permanent	
Grange Primary School			
Haberdasher's Aske Borough Academy		✓	
Harris Academy Bermondsey			
Harris Academy Peckham			
Harris Boys Academy East Dulwich			
Harris Girls Academy East Dulwich		x	
Harris Primary Academy (Peckham Park Primary School)		✓	
Harris Primary Free School East Dulwich		Permanent	
Harris Primary Free School Peckham			
Heber Primary School		Permanent	
Heme Hill			
Highshore		✓	
Hollydale Primary School		Permanent	
Ilderton Primary School		✓	
Iydale Primary School		Permanent	
James Allen Pre Prep School			
James Allen Prep School			
James Allen's Girls School		✓	
John Donne Primary School			
John Keats Primary School			
John Ruskin Primary School			
Judith Kerr Free School			
Keyworth Primary School		x	

School	Measure	Timed	Any time
Kingsdale School		✓	
London Christian School			
Lyndhurst Primary School		✓	
Michael Faraday Primary School		x	
Newlands		✓	
Notre Dame School			
Oliver Goldsmith Primary School			
Orchard College			
Peter Hills with St Mary/St Pauls Primary School			
Phoenix Primary School		✓	
Pilgrims Way Primary School			
Redriff Primary School		✓	
Riverside Primary School		x	
Robert Browning Primary School		Permanent	
Rotherhithe Primary School			
Rye Oak School			Permanent
Sacred Heart RC Secondary School			
Snowsfields Primary School		x	
Southwark Park Primary School			
Spa School		x	
St Anthony's RC Primary School			
St Francesca Cabrini RC Primary School			
St Francis's RC Primary School		Permanent	
St George's Cathedral RC Primary School			
St Georges CE Primary School		Permanent	
St James CE Primary School		Permanent	
St James The Great Catholic Primary School			
St John's (Walworth) CE Primary School		✓	
St John's RC Primary School		x	
St John's/St Clement's CE Primary School		✓	
St Joseph's Junior School		Permanent	
St Joseph's RC Infants School		Permanent	
St Joseph's RC Primary School - Borough			
St Joseph's RC School - Gomm Road		x	
St Joseph's RC School George Row			
St Jude's CE Primary School			
St Mary Magdalene CE Primary School		Permanent	
St Michaels RC School		✓	
St Paul's CE Primary School			x
St Peter's CE Primary School		x	
St Saviours & St Olave's School			
St Thomas the Apostle College			
Surrey Square Primary		✓	
The Belham Primary School			
The Cathedral School of St Saviours & St Mary Overie			
The Charter School East Dulwich		✓	
The Charter School North Dulwich			
The City of London Academy (Southwark)			
The Villa Pre Prep & Nursery		✓	
Tower Bridge Primary School		✓	
Townsend Primary School			
Tuke			
University Academy of Engineering			
Victory School		✓	
Walworth Academy			

Key	
School which are feasible = ✓	Timed/Any time = Closure type
School which are not interested = x	Experimental/Permanent = TMO type
	Shortlist of priority schools