London Borough of Lambeth Air Quality Annual Status Report for 2023

Date of publication: 18th October 2024

This report provides a detailed overview of air quality in Lambeth during 2023. It has been produced to meet the requirements of the London Local Air Quality Management (LLAQM) statutory process[1].

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[1] LLAQM Policy and Technical Guidance 2019 (LLAQM.TG(19))

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Abbreviations

Abbreviation	Description
AQAP	Air Quality Action Plan
AQMA	Air Quality Management Area
AQN	Air Quality Neutral
AQO	Air Quality Objective
AQP	Air Quality Positive
BEB	Buildings Emission Benchmark
CAB	Cleaner Air Borough
EV	Electric Vehicle
GLA	Greater London Authority
LAEI	London Atmospheric Emissions Inventory
LAQM	Local Air Quality Management
LLAQM	London Local Air Quality Management
NRMM	Non-Road Mobile Machinery
PM_{10}	Particulate matter less than 10 micron in diameter
$PM_{2.5}$	Particulate matter less than 2.5 micron in diameter
TEB	Transport Emissions Benchmark
TfL	Transport for London

Table A. Summary of National Air Quality and International Standards, Objectives and Guidelines

Pollutant	Standard / Objective / Guideline	Averaging Period	Date[(1)]
Nitrogen dioxide (NO_2)	200 µg m^{-3} not to be exceeded more than 18 times a year	1-hour mean	31 Dec 2005
Nitrogen dioxide (NO_2)	40 µg m^{-3}	Annual mean	31 Dec 2005
Nitrogen dioxide (NO_2)	WHO AQG[(2)]: 10 µg m^{-3}	Annual mean	
Particles (PM_{10})	50 µg m^{-3} not to be exceeded more than 35 times a year	24-hour mean	31 Dec 2004
Particles (PM_{10})	WHO AQG[(2)]: 45 µg m^{-3} not to be exceeded more than 3-4 times a year	24-hour mean	
Particles (PM_{10})	40 µg m^{-3}	Annual mean	31 Dec 2004
Particles (PM_{10})	WHO AQG[(2)]: 15 µg m^{-3}	Annual mean	
Particles ($PM_{2.5}$)	20 µg m^{-3}	Annual mean	2020
Particles ($PM_{2.5}$)	London Mayoral Objective[(3)]: 10 µg m^{-3}	Annual mean	2030
Particles ($PM_{2.5}$)	WHO AQG[(2)]: 5 µg m^{-3}	Annual mean	
Particles ($PM_{2.5}$)	Target of 15% reduction in concentration at urban background locations	3-year mean	Between 2010 and 2021
Particles ($PM_{2.5}$)	WHO AQG[(2)]: 15 µg m^{-3}	24-hour mean	
Sulphur dioxide (SO_2)	266 µg m^{-3} not to be exceeded more than 35 times a year	15-minute mean	31 Dec 2005
Sulphur dioxide (SO_2)	350 µg m^{-3} not to be exceeded more than 24 times a year	1-hour mean	31 Dec 2004
Sulphur dioxide (SO_2)	125 µg m^{-3} mot to be exceeded more than 3 times a year	24-hour mean	31 Dec 2004
Sulphur dioxide (SO_2)	WHO AQG[(2)]: 40 µg m^{-3} not to be exceeded more than 3-4 times a year	24-hour mean	

Notes:

(1) Date by which to be achieved by and maintained thereafter

(2) 2021 World Health Organisation Air Quality Guidelines

(3) London Mayoral Objective

1. Air Quality Monitoring

1.1 Locations

Table B. Details of Automatic Monitoring Sites for 2023

Site ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Monitoring Technique	Distance to Relevant Exposure (m) (1)	Distance to kerb of nearest road (m) (2)	Inlet Height (m)
LB4	Brixton Road	Kerbside	531070	175593	NO_2, PM_{10}	YES AQMA 1	BAM1020, NO_x Analyser	0.5	0.5	2
LB5	Vauxhall Bondway Interchange	Industrial	530317	177952	NO_2, PM_{10}, SO_2	YES AQMA 1	BAM1020, NO_x Analyser, SO_2 Analyser	5	3	2
LB6	Streatham Green	Background	529971	171570	NO_2, PM_{10}	YES AQMA 1	BAM1020, NO_x Analyser	15	6	2

Notes:

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

(2) N/A if not applicable

Table C. Details of Non-Automatic Monitoring Sites for 2023

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) [1]	Distance to kerb of nearest road (m) [2]	Tube Co-located with a Continuous Analyser?	Tube Height (m)
AS1	Archbishop Sumner Primary School – Kennington Road/Reedworth Road	Kerbside	531242	178675	NO2	YES	0.5	0.5	No	2.2
AS2	Archbishop Sumner Primary School –near play area	Kerbside	531345	178627	NO2	YES	0.5	0.5	No	2.2
BHLTN1	Crescent Lane - Harris Clapham Sixth Form	Kerbside	530089	174598	NO2	YES	0.5	0.5	No	2.2
BHLTN2	105 Kings Avenue	Kerbside	530017	174216	NO2	YES	0.5	0.5	No	2.2
BHLTN3	Opposite Phambra Food Store	Kerbside	530284	174044	NO2	YES	0.5	0.5	No	2.2
BHLTN4	NTCG Brixton Community Church	Kerbside	530525	174616	NO2	YES	0.5	0.5	No	2.2
BHLTN5	Kildoran Road Play Area	Kerbside	530138	174836	NO2	YES	0.5	0.5	No	2.2
BHLTN6	Richard Atkins Primary School	Kerbside	530301	173773	NO2	YES	0.5	0.5	No	2.2

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) (1)	Distance to kerb of nearest road (m) (2)	Tube Co-located with a Continuous Analyser?	Tube Height (m)
DT1, DT2, DT3	Brixton AQ Monitoring Station – co-located	Kerbside	531070	175593	NO2	YES	0.5	0.5	Yes	2.0
DT4	Waterloo Rd / Exton Street	Kerbside	531139	180048	NO2	YES	1.0	0.5	No	2.0
DT5	Waterloo Rd / Holmes Terrace	Kerbside	531214	179907	NO2	YES	2.0	0.5	No	2.0
DT6	98 The Cut	Kerbside	531494	179951	NO2	YES	1.0	0.5	No	2.2
DT7	278-282 Kennington Lane (between St. Oswald's Place and Vauxhall St)	Kerbside	530817	178122	NO2	YES	0.5	0.5	No	2.2
DT8	Archbishop Tenninson School, 55 Kennington Oval	Kerbside	530868	177740	NO2	YES	0.3	0.5	No	2.2
DT9	Alverstone House, Kennington Park Road	Kerbside	531196	177653	NO2	YES	0.5	0.5	No	2.2
DT10	Brixton Road/Prima Road	Kerbside	531250	177464	NO2	YES	0.5	0.5	No	2.2

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) (1)	Distance to kerb of nearest road (m) (2)	Tube Co-located with a Continuous Analyser?	Tube Height (m)
DT11	13 Clapham Road outside Belgrave Hotel	Kerbside	531093	177419	NO2	YES	0.5	0.5	No	2.2
DT12	223 Clapham Road outside Richarsdon Court and Costcutter	Kerbside	530404	176321	NO2	YES	0.2	0.5	No	2.2
DT13	Clapham Road, close to Grantham Road	Kerbside	530363	176269	NO2	YES	0.3	0.5	No	2.2
DT14	378 Clapham Road (by Savoy Mews)	Kerbside	530105	175956	NO2	YES	0.3	0.5	No	2.2
DT15	Clapham Road, outside Roy Ridley House	Kerbside	530009	175719	NO2	YES	0.5	0.5	No	2.2
DT16	Clapham Common tube station, outside Joe Public Café	Kerbside	529413	175284	NO2	YES	1.0	2.0	No	2.2
DT17	8 Stockwell Park Walk	Kerbside	530916	175784	NO2	YES	0.5	0.5	No	2.2
DT18	Stockwell Road/Bellefields Road	Kerbside	531020	175699	NO2	YES	0.5	0.5	No	2.2
DT19	Brixton Road bus stop Q (outside KFC)	Kerbside	531027	175320	NO2	YES	0.3	0.5	No	2.2

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) (1)	Distance to kerb of nearest road (m) (2)	Tube Co-located with a Continuous Analyser?	Tube Height (m)
DT20	Effra Road/Kellett Road	Kerbside	531038	175092	NO2	YES	0.5	0.5	No	2.2
DT21	22 Brixton Water Lane	Kerbside	531231	174607	NO2	YES	0.3	0.5	No	2.2
DT22	St. Matthew's Estate, outside 6 Hicken Road	Kerbside	530928	174849	NO2	YES	0.3	0.5	No	2.2
DT23	Brixton Hill/Horsford Road (Corpus Christi RC School)	Kerbside	530781	174682	NO2	YES	0.5	0.5	No	2.2
DT24	Brixton Hill/New Park Road	Kerbside	530150	173680	NO2	YES	0.3	0.5	No	2.2
DT25	Christchurch House, Christchurch Road (South Circular)	Kerbside	530461	173470	NO2	YES	0.3	0.5	No	2.2
DT26	Streatham Hill/Wavertree Road	Kerbside	530452	173105	NO2	YES	0.5	0.5	No	2.2
DT27	Streatham Hill Station/opposite 10 Streatham High Road	Kerbside	530255	172632	NO2	YES	0.5	0.5	No	2.2

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) (1)	Distance to kerb of nearest road (m) (2)	Tube Co-located with a Continuous Analyser?	Tube Height (m)
DT28	Streatham High Road/Leigham Avenue	Kerbside	530217	172353	NO2	YES	0.5	0.5	No	2.2
DT29	Streatham High Road/Becmead Avenue	Kerbside	530130	172013	NO2	YES	0.5	0.5	No	2.2
DT30	Public space outside 316 Streatham High Road (opp Stanthorpe Road)	Kerbside	530015	171489	NO2	YES	0.5	0.5	No	2.2
DT31	243A Streatham Hill (bus stop opposite Streatham Station)	Kerbside	530101	171148	NO2	YES	0.3	0.5	No	2. 2.
DT32	Clapham High Street (Clapham Library)	Kerbside	529730	175446	NO2	YES	0.3	0.5	No	2.2
DT33	Clapham, Old Town	Kerbside	529217	175648	NO2	YES	0.5	0.5	No	2.2
DT34	South Circular - past bus stop	Kerbside	529130	174288	NO2	YES	0.3	0.5	No	2.2
DT35	South Circular – Oaklands Estate, outside Hawkesworth House	Kerbside	529263	174190	NO2	YES	0.5	0.5	No	2.2

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) (1)	Distance to kerb of nearest road (m) (2)	Tube Co-located with a Continuous Analyser?	Tube Height (m)
DT36	South Circular – Poynders Court	Kerbside	529420	173996	NO2	YES	0.5	0.5	No	2.2
DT37	South Circular – Christchurch Road/Roupell Road	Kerbside	530821	173309	NO2	YES	0.5	0.5	No	2.2
DT38	South Circular – Fenstanton Primary	Kerbside	531160	173103	NO2	YES	1.0	1.0	No	2.2
DT39	South Circular – Tulse Hill/Norwood Road	Kerbside	531731	173026	NO2	YES	0.5	0.5	No	2.2
DT40	South Circular – Lords Close	Kerbside	532341	172918	NO2	YES	0.5	0.5	No	2.2
DT41	Norwood Road/York Hill	Kerbside	531839	172552	NO2	YES	0.5	0.5	No	2.2
DT42	380 Norwood Road (O'Girasol)	Kerbside	531923	172225	NO2	YES	0.5	0.5	No	2.2
DT43	West Norwood Bus Station	Kerbside	531936	171795	NO2	YES	2.0	2.0	No	2.2
DT44	223-225 Gipsy Road	Kerbside	533016	171534	NO2	YES	0.5	0.5	No	2.2
DT45	Gipsy Hill Station	Kerbside	533328	171264	NO2	YES	0.5	0.5	No	2.2

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DT46	Herne Hill 1	Kerbside	531989	174329	NO2	YES	3.0	3.0	No	2.2
DT47	Herne Hill 2	Kerbside	531860	174353	NO2	YES	0.3	0.1	No	2.2
DT48	Loughborough Junction 1	Kerbside	531972	175331	NO2	YES	0.3	0.5	No	2.2
DT49	Loughborough Junction 2	Kerbside	531856	175680	NO2	YES	0.3	0.5	No	2.2
DT50 1, DT50 2, DT50 3	Acre Lane	Kerbside	530657	175133	NO2	YES	0.5	0.5	No	2.2
DT51	Crown Lane School next to bus stop	Kerbside	531557	171047	NO2	YES	0.3	0.5	No	2.2
JP1	Jessop Primary School 1- Milkwood Road j/w Heron Rd	Kerbside	532008	175397	NO2	YES	0.5	0.5	No	2.2
JP2	Jessop Primary School 2 – opposite 57 Heron Road	Kerbside	532086	175297	NO2	YES	0.5	0.5	No	2.2
JP3	Jessop Primary School 3 – by main entrance of the school	Kerbside	532030	175130	NO2	YES	0.5	0.5	No	2.2

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) [1]	Distance to kerb of nearest road (m) [2]	Tube Co-located with a Continuous Analyser?	Tube Height (m)
LI	Loughborough Primary School – inside playground by metal gates	Kerbside	531672	176207	NO2	YES	0.5	5.0	No	2.2
LO	Loughborough Primary School – on Loughborough Road near the playground	Kerbside	531651	176150	NO2	YES	0.5	0.5	No	2.2
LTN1	At the junction with Acre Lane and Concanon Road	Kerbside	530622	175112	NO2	YES	0.3	0.5	No	2.2
LTN2	At the junction with Bedford Road and Clapham Park Road	Kerbside	530068	175106	NO2	YES	0.3	0.5	No	2.2
LTN3	At the opposite end of Bedford Road outside 7oZ Coffee	Kerbside	530043	175668	NO2	YES	0.3	0.5	No	2.2
LTN4	At the junction with Edithna Street and Landor Road	Kerbside	530465	175865	NO2	YES	0.3	0.5	No	2.2

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LTN5	Where Ferndale Road bends to the side by Pulross Road	Kerbside	530917	175578	NO2	YES	0.3	0.5	No	2.2
LTN7	Hillside Road - Palace Road	Kerbside	531147	172879	NO2	YES	0.5	0.5	No	2.2
LTN8	Downtown Avenue – Faygate Road	Kerbside	530763	172840	NO2	YES	0.3	0.5	No	2.2
LTN9	Faygate Road - Hailsham Avenue	Kerbside	530728	172565	NO2	YES	0.3	0.3	No	2.2
LTN10	Leighame Vale – Hitherfield Road	Kerbside	531110	172389	NO2	YES	0.3	0.5	No	2.2
LTN11	Leigham Court Road – Culverhouse Gardens	Kerbside	530650	172226	NO2	YES	0.3	0.5	No	2.2
LTN12	Leigham Court Road/Valley Road/Leigham Vale.	Kerbside	530940	172132	NO2	YES	0.3	0.5	No	2.2
LTN13	Top of wellfield road	Kerbside	530288	171810	NO2	YES	0.3	0.5	No	2.2
LTN14	289 Leigham Court Road.	Kerbside	531181	171612	NO2	YES	0.3	0.5	No	2.2

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LTN15	203/205 Valley Road.	Kerbside	530713	171417	NO2	YES	0.3	0.5	No	2.2
LTN16	Streatham Wells LTN baseline monitoring. Corner of Hopton Road	Kerbside	530498	171054	NO2	YES	0.3	0.5	No	2.2
Point 122	Archbishop Sumner Church of England Primary School – Outside school allotment	Kerbside	531299	178649	NO2	YES	0.3	0.3	No	2.2
RS1	Rosendale Primary School – Turney Road opposite school gate on a sign	Kerbside	532317	173611	NO2	YES	0.5	0.5	No	2.2
SCOOT	Brixton Road – Opposite St Johns Cresent	Kerbside	531137	175822	NO2	YES	0.3	0.5	No	2.2
SH1	Sunny Hill Primary School – school metal fence	Kerbside	530775	171653	NO2	YES	0.5	0.5	No	2.2
SP1	Sudbourne Primary School – Hayter Road	Kerbside	530628	177333	NO2	YES	0.5	0.5	No	2.2

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	by school entrance									
SP2	Sudbourne Primary School – Sudbourne Road near the playground	Kerbside	530738	174966	NO2	YES	0.5	0.5	No	2.2
SR1	In front of Pret A Manger	Kerbside	531267	179825	NO2	YES	0.3	0.5	No	2.2
SR2	Opposite the Wellington	Kerbside	531189	179969	NO2	YES	0.3	0.5	No	2.2
SR3	Tenison Way bus Stop	Kerbside	531006	180079	NO2	YES	0.3	0.5	No	2.2
SR4	Next to bridge by Azzurro Italian bar Sutton Walk	Kerbside	530951	180064	NO2	YES	0.5	0.5	No	2.2
SR5	At corner, opposite Gail's	Kerbside	530835	179873	NO2	YES	0.3	0.5	No	2.2
SR6	London Eye bus stop	Kerbside	530768	179896	NO2	YES	0.5	0.5	No	2.2
SR7	Silver lamppost on grass, behind sign "Welcome to Jubille Garden"	Kerbside	530655	180011	NO2	YES	0.5	115.0	No	2.2

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SR8	By bridge on Belvedere Road	Kerbside	530823	180123	NO2	YES	0.3	0.5	No	2.2
SR9	Entrance of Southbank Centre	Kerbside	530845	180251	NO2	YES	0.5	0.5	No	2.2
SR10	By The Green Room	Kerbside	530965	180267	NO2	YES	0.3	0.5	No	2.2
SR11	Opposite The Understudy	Kerbside	531020	180433	NO2	YES	0.3	70.0	No	4.0
SR12	Upper Ground and Cornwall Road	Kerbside	531118	180337	NO2	YES	0.3	0.5	No	2.2
SR13	Upper Ground and Duchy Street	Kerbside	531287	180420	NO2	YES	0.3	0.5	No	2.2
SR14	On fence by The Wharf	Kerbside	531222	180500	NO2	YES	0.3	90.0	No	2.2
SR15	Coin street and Stamford Street	Kerbside	531259	180282	NO2	YES	0.3	0.5	No	2.2
SR16	Cornwall Road by “Meantime in London B&B”	Kerbside	531205	180162	NO2	YES	0.3	0.5	No	2.2
SR17	Opposite Property Partners	Kerbside	531283	179951	NO2	YES	0.3	0.5	No	2.2
SR18	Opposite Culture Grub	Kerbside	531418	179913	NO2	YES	0.3	0.5	No	2.2

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) (1)	Distance to kerb of nearest road (m) (2)	Tube Co-located with a Continuous Analyser?	Tube Height (m)
SR19	At corner, opposite KCL Maxwell Building	Kerbside	531056	180134	NO2	YES	0.3	0.5	No	2.2
SR20	On road sign on top of the stairs on bridge	Kerbside	530935	180259	NO2	YES	0.3	0.5	No	2.2
SR21	On bridge, on road sign right before the stairs	Kerbside	530902	180319	NO2	YES	0.3	0.5	No	2.2
SS1	St Stephen's Church of England Primary School – near to the entrance to school on Dorset Road	Kerbside	530501	177330	NO2	YES	0.5	0.5	No	2.2
ST1	Guy's and St Thomas' Hospital inside nursery play area	Kerbside	530804	179582	NO2	YES	2.0	2.0	No	2.2
ST2	Guy's and St Thomas' Hospital outside nursery play area	Kerbside	530780	179582	NO2	YES	0.3	0.3	No	2.2
STA1	St Anne's Catholic Primary School – sign	Kerbside	530703	177997	NO2	YES	0.5	0.5	No	2.2

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	post near entrance to school on Durham Street									
STA2	St Anne's Catholic Primary School – on school fence on Harleyford Road by the playground	Kerbside	530621	177957	NO2	YES	0.5	0.5	No	2.2
VP1	Vauxhall Primary School – on Tyers Terrace	Kerbside	530810	178254	NO2	YES	0.5	0.5	No	2.2
VP2	Vauxhall Primary School – Vauxhall Street by school entrance	Kerbside	530800	178341	NO2	YES	0.5	0.5	No	2.2
VX1 1, VX1 2, VX1 3	Opposite SIS building	Kerbside	530371	178067	NO2	YES	0.3	0.5	Yes	2.2
VX2	Goding street, New Spring Gardens Walk	Kerbside	530483	178200	NO2	YES	0.5	2.0	No	2.2
VX3	Glasshouse walk and Vauxhall walk	Kerbside	530571	178300	NO2	YES	0.3	0.5	No	2.2

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VX4	In front of Tintagel House	Kerbside	530408	178326	NO2	YES	0.3	0.5	No	2.2
VX5	Next to Embarkment bus stop	Kerbside	530440	178522	NO2	YES	0.3	0.5	No	2.2
VX6	Vauxhall walk – Jonathan Street	Kerbside	530619	178466	NO2	YES	0.3	0.5	No	2.2
VX8	Opposite the Jolly Gardeners	Kerbside	530753	178616	NO2	YES	0.3	0.5	No	2.2
VX9	Opposite the Fire Brigades Headquarter	Kerbside	530493	178745	NO2	YES	0.3	0.5	No	2.2
VX10	Opposite The Workshop	Kerbside	530565	178760	NO2	YES	0.3	0.5	No	2.2
VX11	Old paradise street – opposite St Gabriel's House	Kerbside	530729	178897	NO2	YES	0.5	0.5	No	2.2
VX12	Old paradise street opposite 1-28 superton walk	Kerbside	530858	178878	NO2	YES	0.5	0.5	No	2.2
VX13	Opposite Lambeth Palace (Stop SD)	Kerbside	530607	178961	NO2	YES	0.3	0.5	No	2.2
WP1	Wyvil Primary School – on signpost	Kerbside	530281	177513	NO2	YES	0.5	0.5	No	2.2

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) (1)	Distance to kerb of nearest road (m) (2)	Tube Co-located with a Continuous Analyser?	Tube Height (m)
WP2	Wyvil Primary School – school metal fence	Kerbside	530246	177510	NO2	YES	0.5	0.5	No	2.2

Notes:

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

(2) N/A if not applicable.

1.2 Comparison of Monitoring Results with AQOs

Concentration values are those at the location of the monitoring site (bias adjusted and annualised, as required), not those following any fall-off with distance correction.

Table D. Annual Mean NO_2 Monitoring Results: Automatic Monitoring (µg/m^3)

Site ID	Site type	Valid data capture for monitoring period %[(a)]	Valid data capture 2023 %[(b)]	2017	2018	2019	2020	2021	2022	2023
LB4 (Brixton Road)	Automatic	99	99	**75.0**	**74.2**	**60.1**	**56.2**	**57.6**	**63.6**	**58.0**
LB5 (Vauxhall Bondway Interchange)	Automatic	48	48	**61.0**	**51.1**	**45.6**	33.7	32.5	28.9	29.7
LB6 (Streatham Green)	Automatic	71	71	28.8	33.8	31.8	25.8	27.4	23.3	24.2

Notes:

The annual mean concentrations are presented as µg m^{-3}.

Exceedances of the NO_2 annual mean AQO of 40 µg m^{-3} are shown in **bold**.

NO_2 annual means in excess of 60 µg m^{-3}, indicating a potential exceedance of the NO_2 hourly mean AQS objective are shown in **bold and underlined**.

Means for diffusion tubes have been corrected for bias.

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%.

Concentrations are those at the location of monitoring and not those following any fall-off with distance adjustment.

(a) Data capture for the monitoring period, in cases where monitoring was only carried out for part of the year.

(b) Data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%

Since 2017, NO_2 levels have decreased by 26% at Brixton Road LB4, by 51% at Vauxhall LB5, and by 16% at Streatham Green LB6. Between 2022 and 2023 there have been slight increases in the NO_2 concentrations observed at Vauxhall LB5 and Streatham Green LB6, however, a decrease in NO_2 concentration was observed at Brixton Road LB4 between 2022 and 2023.

The LB4 kerbside site at Brixton Road has exceeded the Air Quality Objective in 2023. It has exceeded the objective every year and continues to register high concentrations of NO_2. NO_2 levels are of concern at the site, as many people live and work in the area, and Brixton Road is used every day by pedestrians and cyclists.

The LB5 site at Vauxhall did not exceed the Air Quality Objective. This is the third consecutive year that the site has not exceeded the objective.

The LB6 background site at Streatham Green did not exceed the Air Quality Objective.

Table E. Annual Mean NO_2 Monitoring Results: Non-Automatic Monitoring (µg/m^3)

Diffusion Tube ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid Data Capture for Monitoring Period (%) (1)	Valid Data Capture 2023 (%) (2)	2017	2018	2019	2020	2021	2022	2023
AS1	531242	178675	Kerbside	100.0	100.0	N/A	N/A	N/A	20.3	25.8	25.5	19.6
AS2	531345	178627	Kerbside	100.0	100.0	N/A	N/A	N/A	22.9	27.7	22.3	16.5
BHLTN1	530089	174598	Kerbside	82.7	82.7	N/A	N/A	N/A	N/A	N/A	26.5	23.2
BHLTN2	530017	174216	Kerbside	100.0	100.0	N/A	N/A	N/A	N/A	N/A	28.0	27.9
BHLTN3	530284	174044	Kerbside	82.7	82.7	N/A	N/A	N/A	N/A	N/A	24.6	18.7
BHLTN4	530525	174616	Kerbside	82.7	82.7	N/A	N/A	N/A	N/A	N/A	19.5	16.6
BHLTN5	530138	174836	Kerbside	75.0	75.0	N/A	N/A	N/A	N/A	N/A	19.1	15.1
BHLTN6	530301	173773	Kerbside	90.4	90.4	N/A	N/A	N/A	N/A	N/A	20.3	18.1
DT1, DT2, DT3	531070	175593	Kerbside	84.6	84.6	N/A	N/A	N/A	N/A	N/A	**60.4**	**57.2**
DT4	531139	180048	Kerbside	100.0	100.0	N/A	39.1	35.5	25.9	24.2	28.5	22.5
DT5	531214	179907	Kerbside	65.4	65.4	N/A	**57.9**	**49.6**	34.1	**44.0**	38.3	32.0
DT6	531494	179951	Kerbside	82.7	82.7	N/A	**43.2**	38.0	25.1	30.3	31.4	**45.4**
DT7	530817	178122	Kerbside	100.0	100.0	N/A	**48.8**	**41.6**	29.2	30.9	28.1	24.2
DT8	530868	177740	Kerbside	75.0	75.0	N/A	**49.9**	**46.7**	31.4	35.4	30.1	33.5
DT9	531196	177653	Kerbside	100.0	100.0	N/A	**57.1**	**50.7**	35.1	**40.0**	**43.9**	31.3
DT10	531250	177464	Kerbside	82.7	82.7	N/A	36.8	33.4	24.5	23.1	21.8	19.9

Diffusion Tube ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid Data Capture for Monitoring Period (%) (1)	Valid Data Capture 2023 (%) (2)	2017	2018	2019	2020	2021	2022	2023
DT11	531093	177419	Kerbside	100.0	100.0	N/A	**48.6**	**45.7**	31.2	27.8	30.8	28.4
DT12	530404	176321	Kerbside	92.3	92.3	N/A	**50.6**	**47.8**	36.0	39.1	33.2	30.7
DT13	530363	176269	Kerbside	90.4	90.4	N/A	**50.9**	**47.5**	36.4	38.2	35.6	36.0
DT14	530105	175956	Kerbside	92.3	92.3	N/A	**50.4**	**49.3**	37.4	40.0	33.3	30.1
DT15	530009	175719	Kerbside	57.7	57.7	N/A	**49.8**	**51.1**	39.5	38.5	32.7	29.3
DT16	529413	175284	Kerbside	100.0	100.0	N/A	**43.0**	37.3	31.3	33.6	31.6	28.3
DT17	530916	175784	Kerbside	80.8	80.8	N/A	**44.6**	**44.8**	35.2	**41.8**	**47.3**	**41.9**
DT18	531020	175699	Kerbside	92.3	92.3	N/A	**54.1**	**48.2**	31.1	**57.9**	33.4	33.0
DT19	531027	175320	Kerbside	75.0	75.0	N/A	**70.6**	**63.1**	38.8	**54.6**	**41.9**	**41.2**
DT20	531038	175092	Kerbside	82.7	82.7	N/A	38.7	35.7	30.6	34.9	37.3	27.2
DT21	531231	174607	Kerbside	82.7	82.7	N/A	31.6	34.9	22.3	24.8	24.4	20.3
DT22	530928	174849	Kerbside	84.6	84.6	N/A	28.4	28.5	21.3	22.4	23.0	18.0
DT23	530781	174682	Kerbside	92.3	92.3	N/A	37.8	29.4	24.7	28.2	24.0	34.9
DT24	530150	173680	Kerbside	100.0	100.0	N/A	36.3	33.4	24.6	25.7	25.0	23.2
DT25	530461	173470	Kerbside	100.0	100.0	N/A	**57.0**	**50.1**	35.8	**49.2**	38.0	34.8
DT26	530452	173105	Kerbside	82.7	82.7	N/A	35.0	34.0	27.6	**40.2**	29.1	27.1
DT27	530255	172632	Kerbside	82.7	82.7	N/A	**63.3**	**62.9**	**53.7**	**64.5**	**63.0**	**53.3**
DT28	530217	172353	Kerbside	100.0	100.0	N/A	**50.3**	**52.7**	**42.6**	**52.6**	**44.6**	**45.0**
DT29	530130	172013	Kerbside	100.0	100.0	N/A	**62.9**	**62.7**	**49.1**	**58.9**	**47.6**	**51.6**
DT30	530015	171489	Kerbside	82.7	82.7	N/A	**54.2**	**52.7**	35.9	**46.6**	**43.4**	39.5

Diffusion Tube ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid Data Capture for Monitoring Period (%) (1)	Valid Data Capture 2023 (%) (2)	2017	2018	2019	2020	2021	2022	2023
DT31	530101	171148	Kerbside	80.8	80.8	N/A	**69.7**	**62.7**	**49.9**	**61.3**	**54.2**	**53.6**
DT32	529730	175446	Kerbside	75.0	75.0	N/A	35.8	36.8	23.8	22.7	23.2	21.6
DT33	529217	175648	Kerbside	75.0	75.0	N/A	36.0	32.2	23.8	23.8	24.0	20.3
DT34	529130	174288	Kerbside	92.3	92.3	N/A	**55.6**	**51.2**	36.4	**43.2**	34.1	32.7
DT35	529263	174190	Kerbside	82.7	82.7	N/A	**46.3**	**40.7**	29.6	34.1	31.7	25.9
DT36	529420	173996	Kerbside	100.0	100.0	N/A	**52.6**	**48.8**	**41.2**	39.6	34.3	30.1
DT37	530821	173309	Kerbside	100.0	100.0	N/A	**45.9**	39.4	31.8	30.3	26.3	23.9
DT38	531160	173103	Kerbside	92.3	92.3	N/A	**53.7**	**47.9**	35.2	39.1	35.1	29.8
DT39	531731	173026	Kerbside	75.0	75.0	N/A	**50.3**	**44.9**	34.9	**40.1**	**41.5**	32.7
DT40	532341	172918	Kerbside	75.0	75.0	N/A	**51.5**	**46.9**	36.3	36.0	32.4	27.5
DT41	531839	172552	Kerbside	82.7	82.7	N/A	**49.4**	**41.9**	32.0	36.5	**47.5**	35.9
DT42	531923	172225	Kerbside	84.6	84.6	N/A	**52.6**	**49.9**	35.6	35.8	32.2	31.4
DT43	531936	171795	Kerbside	67.3	67.3	N/A	39.7	38.1	29.9	29.7	31.5	33.9
DT44	533016	171534	Kerbside	67.3	67.3	N/A	35.3	35.4	25.0	28.1	28.7	23.7
DT45	533328	171264	Kerbside	65.4	65.4	N/A	34.2	28.0	27.2	23.0	20.5	18.8
DT46	531989	174329	Kerbside	51.9	51.9	N/A	**42.8**	36.0	29.9	30.7	24.7	21.7
DT47	531860	174353	Kerbside	67.3	67.3	N/A	**46.1**	**47.2**	30.4	34.4	29.5	27.2
DT48	531972	175331	Kerbside	59.6	59.6	N/A	**46.8**	**48.7**	35.3	**42.3**	**43.4**	31.8
DT49	531856	175680	Kerbside	84.6	84.6	N/A	39.6	29.0	26.4	21.3	22.0	18.1

Diffusion Tube ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid Data Capture for Monitoring Period (%) (1)	Valid Data Capture 2023 (%) (2)	2017	2018	2019	2020	2021	2022	2023
DT50 1, DT50 2, DT50 3	530657	175133	Kerbside	75.0	75.0	N/A	**45.7**	**42.6**	32.2	**44.5**	**42.0**	23.9
DT51	531557	171047	Kerbside	92.3	92.3	N/A	N/A	38.9	28.2	28.0	27.6	28.3
JP1	532008	175397	Kerbside	92.3	92.3	N/A	N/A	N/A	17.4	24.9	24.2	21.0
JP2	532086	175297	Kerbside	92.3	92.3	N/A	N/A	N/A	22.8	17.1	15.2	13.7
JP3	532030	175130	Kerbside	65.4	65.4	N/A	N/A	N/A	N/A	17.2	18.9	15.6
LI	531672	176207	Kerbside	32.7	32.7	N/A	N/A	N/A	20.7	4**5.0**	22.0	**62.1**
LO	531651	176150	Kerbside	51.9	51.9	N/A	N/A	N/A	20.4	26.3	21.4	17.9
LTN1	530622	175112	Kerbside	92.3	92.3	N/A	N/A	N/A	26.6	25.1	26.0	20.8
LTN2	530068	175106	Kerbside	82.7	82.7	N/A	N/A	N/A	34.7	34.8	31.4	37.3
LTN3	530043	175668	Kerbside	82.7	82.7	N/A	N/A	N/A	30.4	34.9	28.8	28.9
LTN4	530465	175865	Kerbside	92.3	92.3	N/A	N/A	N/A	24.6	23.6	21.7	19.4
LTN5	530917	175578	Kerbside	100.0	100.0	N/A	N/A	N/A	22.4	27.2	24.2	17.9
LTN7	531147	172879	Kerbside	75.0	75.0	N/A	N/A	N/A	25.8	22.5	20.8	19.6
LTN8	530763	172840	Kerbside	92.3	92.3	N/A	N/A	N/A	28.7	21.0	21.6	18.6
LTN9	530728	172565	Kerbside	92.3	92.3	N/A	N/A	N/A	20.7	17.0	16.8	14.8
LTN10	531110	172389	Kerbside	92.3	92.3	N/A	N/A	N/A	34.0	26.2	19.5	17.8
LTN11	530650	172226	Kerbside	92.3	92.3	N/A	N/A	N/A	**42.4**	**48.3**	34.7	30.0
LTN12	530940	172132	Kerbside	57.7	57.7	N/A	N/A	N/A	29.8	24.2	25.5	35.8
LTN13	530288	171810	Kerbside	75.0	75.0	N/A	N/A	N/A	N/A	27.8	27.7	17.4

Diffusion Tube ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid Data Capture for Monitoring Period (%) (1)	Valid Data Capture 2023 (%) (2)	2017	2018	2019	2020	2021	2022	2023
LTN14	531181	171612	Kerbside	75.0	75.0	N/A	N/A	N/A	N/A	20.3	25.5	24.4
LTN15	530713	171417	Kerbside	75.0	75.0	N/A	N/A	N/A	N/A	25.0	23.8	19.9
LTN16	530498	171054	Kerbside	69.2	69.2	N/A	N/A	N/A	N/A	26.0	33.2	23.8
Point 122	531299	178649	Kerbside	100.0	100.0	N/A	N/A	N/A	N/A	N/A	24.0	17.2
RS1	532317	173611	Kerbside	75.0	75.0	N/A	N/A	N/A	19.5	19.3	16.6	13.6
SCOOT	531137	175822	Kerbside	67.3	67.3	N/A	N/A	N/A	35.0	**46.7**	33.8	32.4
SH1	530775	171653	Kerbside	92.3	92.3	N/A	N/A	N/A	22.5	18.4	17.1	15.4
SP1	530628	177333	Kerbside	100.0	100.0	N/A	N/A	N/A	21.3	19.4	19.7	15.9
SP2	530738	174966	Kerbside	50.0	50.0	N/A	N/A	N/A	19.0	31.1	22.7	15.6
SR1	531267	179825	Kerbside	100.0	100.0	N/A	N/A	N/A	28.5	31.1	30.1	27.9
SR2	531189	179969	Kerbside	75.0	75.0	N/A	N/A	N/A	26.6	32.8	27.9	24.9
SR3	531006	180079	Kerbside	92.3	92.3	N/A	N/A	N/A	38.4	**40.6**	**41.6**	**43.4**
SR4	530951	180064	Kerbside	100.0	100.0	N/A	N/A	N/A	35.5	**43.4**	**43.1**	**43.3**
SR5	530835	179873	Kerbside	75.0	75.0	N/A	N/A	N/A	31.7	36.9	29.7	34.4
SR6	530768	179896	Kerbside	59.6	59.6	N/A	N/A	N/A	30.4	29.7	33.8	27.7
SR7	530655	180011	Kerbside	75.0	75.0	N/A	N/A	N/A	23.9	26.9	22.5	23.4
SR8	530823	180123	Kerbside	50.0	50.0	N/A	N/A	N/A	24.9	28.4	27.1	43.9
SR9	530845	180251	Kerbside	15.4	15.4	N/A	N/A	N/A	N/A	27.8	27.3	28.5
SR10	530965	180267	Kerbside	65.4	65.4	N/A	N/A	N/A	28.7	30.1	26.3	27.8
SR11	531020	180433	Kerbside	92.3	92.3	N/A	N/A	N/A	23.5	25.0	25.0	23.5

Diffusion Tube ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid Data Capture for Monitoring Period (%) (1)	Valid Data Capture 2023 (%) (2)	2017	2018	2019	2020	2021	2022	2023
SR12	531118	180337	Kerbside	100.0	100.0	N/A	N/A	N/A	24.3	25.8	30.9	25.3
SR13	531287	180420	Kerbside	92.3	92.3	N/A	N/A	N/A	23.0	24.6	24.4	23.1
SR14	531222	180500	Kerbside	100.0	100.0	N/A	N/A	N/A	20.4	24.1	21.2	19.3
SR15	531259	180282	Kerbside	84.6	84.6	N/A	N/A	N/A	28.9	29.8	30.2	28.6
SR16	531205	180162	Kerbside	92.3	92.3	N/A	N/A	N/A	23.6	24.6	24.9	21.6
SR17	531283	179951	Kerbside	84.6	84.6	N/A	N/A	N/A	24.8	25.8	24.3	26.7
SR18	531418	179913	Kerbside	100.0	100.0	N/A	N/A	N/A	26.4	26.4	23.1	21.5
SR19	531056	180134	Kerbside	90.4	90.4	N/A	N/A	N/A	31.6	36.5	34.7	33.9
SR20	530935	180259	Kerbside	55.8	55.8	N/A	N/A	N/A	**44.1**	37.4	**43.3**	**40.4**
SR21	530902	180319	Kerbside	69.2	69.2	N/A	N/A	N/A	29.3	36.5	33.1	32.0
SS1	530501	177330	Kerbside	75.0	75.0	N/A	N/A	N/A	23.0	20.4	21.4	18.6
ST1	530804	179582	Kerbside	100.0	100.0	N/A	N/A	N/A	N/A	N/A	38.1	36.1
ST2	530780	179582	Kerbside	25.0	25.0	N/A	N/A	N/A	N/A	N/A	26.9	25.9
STA1	530703	177997	Kerbside	57.7	57.7	N/A	N/A	N/A	32.1	**40.2**	34.0	34.4
STA2	530621	177957	Kerbside	75.0	75.0	N/A	N/A	N/A	35.2	38.4	35.3	34.4
VP1	530810	178254	Kerbside	92.3	92.3	N/A	N/A	N/A	21.1	22.1	16.5	18.0
VP2	530800	178341	Kerbside	75.0	75.0	N/A	N/A	N/A	21.7	22.7	21.7	17.8
VX1 1, VX1 2, VX1 3	530371	178067	Kerbside	100.0	100.0	N/A	N/A	N/A	29.8	24.2	26.4	26.1
VX2	530483	178200	Kerbside	80.8	80.8	N/A	N/A	N/A	23.4	21.8	21.8	19.5

Diffusion Tube ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid Data Capture for Monitoring Period (%) (1)	Valid Data Capture 2023 (%) (2)	2017	2018	2019	2020	2021	2022	2023
VX3	530571	178300	Kerbside	100.0	100.0	N/A	N/A	N/A	21.3	22.5	20.7	18.3
VX4	530408	178326	Kerbside	100.0	100.0	N/A	N/A	N/A	32.3	35.7	29.5	28.3
VX5	530440	178522	Kerbside	100.0	100.0	N/A	N/A	N/A	30.3	32.0	29.6	27.6
VX6	530619	178466	Kerbside	82.7	82.7	N/A	N/A	N/A	27.1	24.3	26.1	23.3
VX8	530753	178616	Kerbside	84.6	84.6	N/A	N/A	N/A	26.1	25.8	23.5	19.9
VX9	530493	178745	Kerbside	100.0	100.0	N/A	N/A	N/A	34.9	37.5	31.0	29.6
VX10	530565	178760	Kerbside	75.0	75.0	N/A	N/A	N/A	25.5	26.2	23.9	19.4
VX11	530729	178897	Kerbside	82.7	82.7	N/A	N/A	N/A	23.8	23.4	22.5	21.1
VX12	530858	178878	Kerbside	65.4	65.4	N/A	N/A	N/A	20.2	20.1	18.0	15.9
VX13	530607	178961	Kerbside	100.0	100.0	N/A	N/A	N/A	31.3	33.0	32.3	29.4
WP1	530281	177513	Kerbside	90.4	90.4	N/A	N/A	N/A	25.2	27.4	27.9	22.5
WP2	530246	177510	Kerbside	75.0	75.0	N/A	N/A	N/A	24.5	28.9	24.1	21.6

☒ **Annualisation has been conducted where data capture is <75% and >25% in line with LLAQM.TG19**

☒ **Diffusion tube data has been bias adjusted**

☒ **Reported concentrations are those at the location of the monitoring site (bias adjusted and annualised, as required), i.e. prior to any fall-off with distance correction**

Notes:

The annual mean concentrations are presented as µg/m^3.

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

NO_2 annual means exceeding 60µg/m^3, indicating a potential exceedance of the NO_2 1-hour mean objective are shown in **bold and underlined**.

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

Concentrations are those at the location of monitoring and not those following any fall-off with distance adjustment.

(1) Data capture for the monitoring period, in cases where monitoring was only carried out for part of the year.

(2) Data capture for the full calendar year (e.g. if monitoring was carried out for 6 months, the maximum data capture for the full calendar year is 50%).

Table F. NO_2 Automatic Monitoring Results: Comparison with 1-hour Mean Objective, Number of 1-Hour Means > 200 µg m^{-3}

Site ID	Valid data capture for monitoring period %([a])	Valid data capture 2023 %([b])	2017	2018	2019	2020	2021	2022	2023
LB4 (Brixton Road)	99	99	**75**	**83 (247.87)**	11 (196)	1	4	9	6
LB5 (Vauxhall Bondway Interchange)	48	48	0	0	0	0	0	0	0 (104.1)
LB6 (Streatham Green)	71	71	0	0	0	0	0	0	0 (98.4)

Notes

Results are presented as the number of 1-hour periods where concentrations greater than 200 µg m^{-3} have been recorded.

Exceedance of the NO_2 short term AQO of 200 µg m^{-3} over the permitted 18 hours per year are shown in **bold**.

If the period of valid data is less than 85%, the 99.8th percentile of 1-hour means is provided in brackets.

(a) Data capture for the monitoring period, in cases where monitoring was only carried out for part of the year

(b) Data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%)

The LB4 site on Brixton Road registered six exceedances of the 1-hour mean objective this year, an improvement on the nine exceedances in 2022. This is within the permitted 18 hours per year.

Both LB5 Vauxhall Bondway Interchange and LB6 Streatham Green continued to meet the objective

Table G. Annual Mean PM_{10} Automatic Monitoring Results (µg m^{-3})

Site ID	Valid data capture for monitoring period %([a])	Valid data capture 2023 %([b])	2017	2018	2019	2020	2021	2022	2023
LB4 (Brixton Road)	95	85	35	30 (29)	25	24	25	21	18
LB5 (Vauxhall Bondway Interchange)	44	44	37	34	38	**46**	**46**	37	30
LB6 (Streatham Green)	85	85	28 (26)	20	19	18	18	17	17

Notes

The annual mean concentrations are presented as µg m^{-3}.

Exceedances of the PM_{10} annual mean AQO of 40 µg m^{-3} are shown in **bold**.

All means have been "annualised" in accordance with LLAQM Technical Guidance, if valid data capture is less than 75% and more than 25%.

(a) Data capture for the monitoring period, in cases where monitoring was only carried out for part of the year.

(b) Data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%).

None of the monitoring sites recorded exceedances for the annual mean PM_{10} concentration in 2023. The measured concentration at LB4 Brixon Road fell from 21 µg m^{-3} to 18 µg m^{-3} between 2022 and 2023. There was no change in the concentration measured at LB6 Streatham Green.

It is understood that the spikes of PM_{10} levels at LB5 Bondway Interchange are due to contamination from a tube vent which belongs to Transport for London, which is situated immediately next to the air quality station. This vent was previously sealed and has been reopened. The pollution from the vent is contaminating the readings, and we therefore believe those not to be representative of PM_{10} concentrations in the Vauxhall area. The Vauxhall monitor is in the process on being moved to a nearby location.

Table H. PM_{10} Automatic Monitoring Results: Comparison with 24-Hour Mean Objective, Number of PM_{10} 24-Hour Means > 50 µg m^{-3}

Site ID	Valid data capture for monitoring period %[a]	Valid data capture 2023 %[b]	2017	2018	2019	2020	2021	2022	2023
LB4 (Brixton Road)	95	85	27	13 **(46)**	10 **(38.1**)	11	10	23	11
LB5 (Vauxhall Bondway Interchange)	44	44	**64**	**45**	**74**	**142**	**148**	**128**	33
LB6 (Streatham Green)	85	85	11 (10)	3	5	4	1	7	1

Notes

Exceedances of the PM_{10} 24-hour mean objective (50 µg m^{-3} over the permitted 35 days per year) are shown in **bold.**

Where the period of valid data is less than 85% of a full year, the 90.4th percentile is provided in brackets.

(a) data capture for the monitoring period, in cases where monitoring was only carried out for part of the year

(b) data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%).

All three sites had fewer 24 hour periods that breached the 50 µg m^{-3} level in 2023 than 2022. None of the three monitoring sites observed exceedances of the 35 days per year 24-hour mean objective.

Table I. 2023 SO_2 Automatic Monitoring Results: Comparison with Objectives

Site ID	Valid data capture for monitoring period %[(a)]	Valid data capture 2023 %[(b)]	Number of 15-minute means > 266 µg m^{-3}	Number of 1-hour mean > 350 µg m^{-3}	Number 24-hour mean > 125 µg m^{-3}
LB5 (Vauxhall Bondway Interchange)	48	48	0	**0**	0

Notes

Results are presented as the number of instances where monitored concentrations are greater than the objective concentration.

Exceedances of the SO_2 objectives are shown in **bold** (15-min mean = 35 allowed a year, 1-hour mean = 24 allowed a year, 24-hour mean = 3 allowed a year).

If the period of valid data is less than 85%, the relevant percentiles are provided in brackets.

(a) Data capture for the monitoring period, in cases where monitoring was only carried out for part of the year.

(b) Data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%).

There were no exceedances of SO2 concentrations which is in line with previous years' results

2. Action to Improve Air Quality

2.1 Air Quality Management Areas

Air Quality Management Areas (AQMAs) are declared when there is an exceedance or likely exceedance of an air quality objective. After declaration, the authority should prepare an Air Quality Action Plan (AQAP) within 12 months. The AQAP should specify how air quality targets will be achieved and maintained, and provide dates by which measures will be carried out.

A summary of AQMAs declared by Lambeth can be found in Table . The table presents a description of the AQMA that is currently designated within Lambeth. Appendix C provides maps of the AQMA and also the air quality monitoring locations in relation to the AQMA. The air quality objectives pertinent to the current AQMA designation are as follows:

- NO_2 annual mean;
- NO_2 hourly mean
- PM_{10} annual mean;
- PM_{10} 24-hour mean

Table J. Declared Air Quality Management Areas

AQMA Name	Date of Declaration	Pollutants and Air Quality Objectives	One Line Description	Is air quality in the AQMA influenced by roads controlled by Highways England?	Level of Exceedance: Declaration	Level of Exceedance: Current Year	Number of Years Compliant with Air Quality Objective	Name and Date of AQAP Publication	Web Link to AQAP
Lambeth AQMA	Declared 01/09/2007	Particulate Matter PM_{10} - Annual Mean	An area encompassing the entirety of the London Borough of Lambeth.	NO	67	30	2 years	London Borough of Lambeth Air Quality Action Plan 2023–25 adopted Jan 2023	London Borough of Lambeth Air Quality Action Plan 2023–25
Lambeth AQMA	Declared 01/09/2007	Particulate Matter PM_{10} - 24-Hour Mean	An area encompassing the entirety of the London Borough of Lambeth.	NO	210	33	1 years	London Borough of Lambeth Air Quality Action Plan 2023–25 adopted Jan 2023	London Borough of Lambeth Air Quality Action Plan 2023–25
Lambeth AQMA	Declared 01/09/2007	Nitrogen dioxide NO_2 - Annual Mean	An area encompassing the entirety of the London Borough of Lambeth.	NO	82	58	0 years	London Borough of Lambeth Air Quality Action Plan 2023–25 adopted Jan 2023	London Borough of Lambeth Air Quality Action Plan 2023–25
Lambeth AQMA	Declared 01/09/2007	Nitrogen dioxide NO_2 - 1-Hour Mean	An area encompassing the entirety of the London Borough of Lambeth.	NO	30	6	0 years	London Borough of Lambeth Air Quality Action Plan 2023–25	London Borough of Lambeth Air Quality Action

AQMA Name	Date of Declaration	Pollutants and Air Quality Objectives	One Line Description	Is air quality in the AQMA influenced by roads controlled by Highways England?	Level of Exceedance: Declaration	Level of Exceedance: Current Year	Number of Years Compliant with Air Quality Objective	Name and Date of AQAP Publication	Web Link to AQAP
								adopted Jan 2023	Plan 2023–25

☒ **London Borough of Lambeth confirm the information on UK-Air regarding their AQMA(s) is up to date.**

☒ **London Borough of Lambeth confirm that all current AQAPs have been submitted to GLA).**

2.2 Air Quality Action Plan Progress

The London Borough of Lambeth adopted the most recent Air Quality Action Plan in January 2023. The plan covers the period between 2023 and 2025 and we anticipate that a new plan covering the period 2026 onwards will be published at the end of the calendar year 2025.

Table provides a brief summary of London Borough of Lambeth progress against the Air Quality Action Plan, showing progress made this year.

Table K. Delivery of Air Quality Action Plan Measures

Measure	LLAQM Action Matrix Theme	Action	Progress
1.1.1	Borough Fleet	All of the council's fleet except those for which there is no viable zero emissions model to be electric or zero emission by 2030. Target the introduction of electric cars and vans under 3.5 tonnes between 2023-25.	In 2023, the council owned or leased 132 fossil fuel vehicles, 43 electric vehicles, and 32 hybrid vehicles.

Measure	LLAQM Action Matrix Theme	Action	Progress
		Report annually on the percentage of the council's vehicles that are fully electric/zero emission.	
1.1.2	Borough Fleet	Audit the council's fleet, with service areas committing to using public transport, cargo bikes, and other active travel options where feasible. Commit to sizing the council's fleet in line with this objective, and in a way that is consistent with the Climate Action Plan requirement for a 27% reduction in traffic by 2030.	In line with the commitment to reduce vehicle miles travelled in Lambeth by 27% by 2030, all departments are routinely reviewing their need for vehicles and adopting more sustainable modes of transport where possible.
1.1.3	Borough Fleet	All new procurement of vehicles will undergo options appraisals to review the feasibility of all fuel types, as set out in the forthcoming Fleet Management Strategy.	To be carried out in 2024
1.1.4	Borough Fleet	All small vehicles supporting waste services (e.g. vans) to be fully electric.	All small vehicles supporting the waste service are fully electric.
1.1.5	Borough Fleet	Expand electrification of Lambeth's Refuse Collection Vehicles.	There are two eRCVs in the fleet as of 2023, which will be expanded as fossil fuel models come out of service.
1.1.6	Borough Fleet	Expand electrification of Lambeth's street cleansing fleet and aim to reduce pollution from resuspended particulate matter pollution.	Lambeth's street cleansing fleet already includes five electric small mechanical brooms (e-SMBs) and one dust cart, which will be expanded as fossil fuel models come out of service.
1.1.7	Delivery servicing and freight	Review Lambeth's Responsible Procurement Policy with a view to introducing a mandatory electric vehicle component for all contracts over £100k in which transport is a major element, stepping up to a 100% electric vehicle requirement over time.	Adopted in the 2023 revision of Responsible Procurement Policy
1.1.8	Cleaner transport	All new contracts with a transport element exceeding £100k to give preferential scoring to bidders that integrate cargo bike or other active travel delivery modes, where applicable.	Adopted in the 2023 revision of Responsible Procurement Policy
1.1.9	Delivery servicing and freight	All vehicles on new contracts with a transport element exceeding £100k to meet the ULEZ emissions standard.	Adopted in the 2023 revision of Responsible Procurement Policy

Measure	LLAQM Action Matrix Theme	Action	Progress
1.1.10	Delivery servicing and freight	All new contracts for a fleet service exceeding £100k to pursue fleet optimisation and vehicle route planning to minimise mileage.	Adopted in the 2023 revision of Responsible Procurement Policy
1.1.11	Delivery servicing and freight	All new contracts with a transport element exceeding £100k to commit to an anti-idling policy, and for all drivers to have undertaken anti-idling training.	Adopted in the 2023 revision of Responsible Procurement Policy
1.1.12	Delivery servicing and freight	All new contractors delivering a freight service exceeding £100k to pursue freight consolidation, using freight consolidation hubs where feasible.	Adopted in the 2023 revision of Responsible Procurement Policy
1.1.13	Borough Fleet	Smarter Driver Training for Lambeth fleet drivers to increase fuel efficient driving.	To be carried out in 2025
1.2.1	Localised solutions	Work with local communities to reduce emissions in neighbourhood areas through the council's Low Traffic Neighbourhood programme as part of a wider strategy to reduce traffic across the borough.	Lambeth has five permanent Low Traffic Neighbourhoods and is continuing to expand the programme. In 2023 the Streatham Wells Low Traffic Neighbourhood was trialled, and the scheme was suspended as a result of concerns about public transport delays and the anticipated impact on the A23 due to construction work. Plans for the future of the LTN will be shared in due course.
1.2.2	Localised solutions	Commit to increased monitoring of air quality impacts to inform the evidence based roll out of the Low Traffic Neighbourhood programme	The Climate Change and Sustainability team support the Transport Strategy Team in monitoring the impact of the Low traffic Neighbourhood programme and install additional infrastructure where required.
1.2.3	Localised solutions	Progress towards a target of 25 percent of kerbside space allocated for community resilience to climate change, re-purposing street space to promote active travel and zero emission vehicles, improving local air quality.	The new Kerbside Strategy has been approved and adopted by Lambeth committing to a target of 25% of the kerbside to be used sustainably.
1.2.4	Cleaner transport	Deliver Healthy Routes to enable a shift towards active travel and improve air quality.	Approximately 5 km of Healthy Routes were delivered in the period of 2023. The programme is continuing with several schemes progressing into 2024.

Measure	LLAQM Action Matrix Theme	Action	Progress
1.2.5	Localised solutions	Investigate potential role of zero emission zones in Lambeth.	Initial investigations have started exploring the possibility of zero emissions zones. More work is being done in 2024 to assess their feasibility.
1.2.6	Public health and awareness raising	Reduce pollution in the close vicinity of schools by implementing School Streets that remove the majority of vehicles on streets with school access. School Streets to be implemented at all suitable schools by May 2026.	There were 29 schools in Lambeth with school streets implemented in Lambeth by the end of 2023.
1.2.7	Public health and awareness raising	Deliver a school superzone project to improve the air quality, targeting areas with high levels of deprivation and need. Lessons to be rolled out across the borough, subject to funding.	A school superzone project was launched in Brixton Hill in March 2023 As part of the project, Lambeth worked with Asthma and Lung UK to fit air quality monitors in schools to record air quality over time. This was followed by education and activities to reduce air pollution.
1.2.8	Public health and awareness raising	Continue to support the school daily mile programme, including the identification and promotion of clean walking routes to schools, children and parents/carers.	The public health team support schools to promote routes with low exposure to air pollutants to schools.
1.2.9	Cleaner transport	Increase promotion of cycling and walking websites and apps.	The Big Shift Programme continues to promote walking, wheeling and cycling online on the Lambeth Council website and events across the borough. Promotional material also links to the Cycle Confident website to book cycle training.
1.2.10	Public health and awareness raising	Continue to actively engage with all schools in the STARS programme.	There are 36 schools participating in the STARS in Lambeth.
1.2.11	Public health and awareness raising	Continue to support schools to implement travel plans moving from bronze to silver to gold.	In 2022, there were 7 schools with bronze travel plans, 9 with silver and 20 with gold.
1.2.12	Public health and awareness raising	Work to reduce pollution in the close vicinity of hospitals and support the Clean Air Hospital Framework update.	To be carried out in 2025
1.2.13	Delivery servicing and freight	Continue E-cargo bike trials to enable a shift away from polluting vehicles for smaller freight trips.	To be carried out in 2024

Measure	LLAQM Action Matrix Theme	Action	Progress
1.2.14	Public health and awareness raising	Commission research on the effect of 15-minute neighbourhoods on vehicle mileage reduction and air quality. Research to inform next iteration of the Local Plan	Research delivered and informed Local Plan
1.2.15	Cleaner transport	Expansion of cycle hire schemes across the borough through allocation of S106 funds to deliver expansion of the TfL Cycle Hire Scheme, and expansion of dockless cycle hire schemes.	To be carried out in 2024
1.2.16	Public health and awareness raising	Reduce instances of idling vehicles through increased communications and enforcement of anti-idling measures.	Anti-idling enforcement is carried out on a responsive basis, with officers targeting areas that are raised as known hot spots. Where consistent issues persist, signage is erected to remind drivers to turn off their engines when stationary.
1.2.17	Delivery servicing and freight	Support the consolidation of freight across the borough.	This workstream forms part of the upcoming freight and servicing strategy due to be published in 2024.
1.2.18	Cleaner transport	Air quality to be a key consideration when updating and delivering a revised Electric Vehicle and Car Club Strategy that supports the uptake of electric vehicles, including e-scooters and e-bikes, car clubs and privately owned vehicles for essential trips.	The Lambeth EV Strategy was delivered in September 2023. The strategy will help decarbonise car trips that cannot be switched to sustainable transport, walking, or cycling, and will have a positive effect on air quality in the borough by supporting the move away from fossil fuel vehicles.
1.2.19	Cleaner transport	Installation of more residential charge points in lamp columns, and take measures to ensure electric vehicle bays are free for charging.	Lambeth have installed 116 new lamp column charge points.and are also exploring the market and carrying out engagement with suppliers to trial the use of bookable EV bays in an effort to increase accessibility of charge points whilst also increasing utilisation
1.2.20	Cleaner transport	Installation of rapid chargers to enable the take up of electric taxis, cabs and commercial vehicles, in partnership with TfL and/or OLEV.	The Council are in the process of decommissioning their existing rapid chargers and terminating the associated contract. These will be replaced with new rapid charge points which the Council will have full operational control of, whilst receiving 100% of the revenue to enable reinvestment.

Measure	LLAQM Action Matrix Theme	Action	Progress
			The Council have identified potential sites to repurpose the vacant land for the use of EV rapid charging hubs. The business case for this is currently being developed
1.2.21	Cleaner transport	Review feasibility of rapid charging hubs to complement slow and fast charging infrastructure, in partnership with TfL.	The Lambeth EV Strategy was delivered in September 2023 and commits Lambeth to implement three rapid charging hubs by 2027
1.2.22	Cleaner transport	Develop and implement an updated electric vehicle strategy that enables car clubs to transition towards full BEV fleets by 2025.	The Lambeth EV Strategy commits Lambeth to include car clubs as an essential part of the charging network.
1.2.23	Cleaner transport	Installation of electric vehicle car club bays throughout the borough.	Lambeth has submitted a bid for LEVI funding which includes installing charge points to enable the electrification of the borough's car club vehicles. It is anticipated that once grant funding has been approved, a delivery plan will be drafted to convert the existing car club vehicles across the borough to electric and continue to expand the car club fleet, particularly in areas of high parking pressure and social housing estates.
1.2.24	Cleaner transport	Review role of public charging infrastructure to support e-bikes, e-cargo bikes and shared micro mobility.	Review undertaken as part of the Lambeth EV Strategy development
1.2.25	Cleaner transport	Take steps to encourage and facilitate increased cycling among more vulnerable road users and groups with lower cycling rates.	Bikeability training is offered to all schools in the borough and Cycle Confident training is supported in promotional material from Lambeth. .
1.2.26	Public health and awareness raising	Deliver regular car free days that raise awareness around the impacts of poor air quality and support the shift towards less polluting modes.	Lambeth had three car free days in 2023
1.2.27	Cleaner transport	Lobby for low-emission buses to serve all routes in Lambeth.	Lambeth have continued to support TfL's transitions to low-emission buses.
1.2.28	Cleaner transport	Support the continued expansion of the Ultra Low Emission Zone to the whole of Lambeth and lobby for a smarter charge linked to vehicle mileage in the long-term.	Lambeth have continued to support the expansion of Ultra Low Emission Zone to the whole of Lambeth

Measure	LLAQM Action Matrix Theme	Action	Progress
1.2.29	Cleaner transport	Extend parking controls to reduce air pollution through increased coverage of Controlled Parking Zones and modification of existing zones, while advancing the primary objectives of The Road Traffic Regulation Act 1984	Lambeth's Kerbside Strategy published in January 2023 commits Lambeth to extend Controlled Parking Zones borough wide.
1.2.30	Cleaner transport	Create walking routes through neighbourhoods to promote greater uptake of active travel	To be carried out in 2024
1.2.31	Cleaner transport	Apply London Plan and Local Plan transport policies to encourage a reduction in car ownership and private car trips and greater use of communal and active travel modes.	Policies are applied in new planning applications
1.2.32	Public health and awareness raising	Install anti-idling signage around garages and parking areas on housing estates.	Signage installed
1.2.33	Cleaner transport	Continue to limit the provision of parking spaces on residential estates in locations that expose residents to exhaust fumes.	Parking spaces on residential estates continue to be limited
1.2.34	Cleaner transport	Invest £500,000 over three years to Increase the provision of cycling storage on the council's residential estates. Develop cycle routes through estates, and cycle friendly access and exit points on estates.	To be carried out in 2024
1.2.35	Cleaner transport	Install over 5000 secure cycle storage spaces by 2026	In 2023, 2,490 secure cycle storage spaces had been installed in Lambeth.
1.2.36	Cleaner transport	Increase provision of electric vehicle charging infrastructure on the council's residential estates, with a target to install units on all estates over 100 properties.	Lambeth has begun a procurement exercise to appoint a contractor to install 44 fast chargers on social housing estates across the borough. Engagement has also begun with tenancy management organisation (TMO) estates to introduce EV infrastructure. It is anticipated that these charge points will be installed and commissioned in 2024
1.2.37	Cleaner transport	Increase provision of bicycle storage in Lambeth's parks and green spaces to encourage active travel.	

Measure	LLAQM Action Matrix Theme	Action	Progress
1.2.38	Public health and awareness raising	Produce materials for schools to distribute to parents, to discourage engine idling at drop-off and pick-up times, as part of the Future Fit Schools Resource Pack	Materials distributed to schools as part of the Future Fit Schools Resource Pack
1.2.39	Cleaner transport	Commit to lobby TfL to increase the number of protected cycle routes and lanes in Lambeth	Lambeth continue to lobby TfL to increase the number of protected cycle routes and lanes in Lambeth
2.1.1	Emissions from developments and buildings	Planning decisionmakers will be advised about local air quality targets on PM2.5, PM10 and NO2, as set out in Lambeth's Air Quality Vision, as a material consideration alongside development plan policy.	Air Quality vision shared with planning decision makers to support development of planning policy.
2.1.2	Emissions from developments and buildings	The council will work towards integrating local air quality targets on NO2, PM10 and PM2.5, as set out in Lambeth's Air Quality Vision, into the next iteration of the Local Plan.	Work to start once the next Local Plan review commences (date tbc)
2.1.3	Emissions from developments and buildings	Produce an updated air quality guidance note pulling together references to all existing policy and guidance on construction and air quality as contained in the Local Plan, London Plan, SoWN neighbourhood plan and Supplementary Planning Guidance as an aid and checklist for applicants and decision makers.	To be carried out in 2024
2.1.4	Emissions from developments and buildings	Produce a construction code of practice for small developments to be used as an informative on planning consents, informed by emerging examples of best practice.	To be developed alongside the Construction Emissions Officer workstream.
2.1.5	Emissions from developments and buildings	Reduce/mitigate pollution from construction logistics through application of current development plan policy.	Current policy applied.
2.1.6	Emissions from developments and buildings	Aim to reduce diesel generators on construction sites wherever possible.	As per the Control of Dust and Emissions during Construction and Demolition Supplementary Planning Guidance, diesel generators are to be avoided wherever possible.
2.1.7	Emissions from developments and buildings	Pursue Air Quality Positive development in Opportunity Areas, through application of development plan policy and guidance.	Lambeth is applying London Plan policy SI1 Improving air quality to all development proposals in the borough

Measure	LLAQM Action Matrix Theme	Action	Progress
2.1.8	Emissions from developments and buildings	Consider the cumulative impact of construction of nearby developments in order to identify, and where possible mitigate, any cumulative effects on local air quality.	As per the Control of Dust and Emissions during Construction and Demolition Supplementary Planning Guidance, cumulative impact of developments on air quality is considered.
2.1.9	Emissions from developments and buildings	Reduce and mitigate pollution from construction and demolition through application of London Plan and Local Plan policy and the London Plan Sustainable Design and Construction Supplementary Planning Guidance and The Control of Dust and Emissions during Construction and Demolition Supplementary Planning Guidance.	Appropriate conditions applied
2.1.10	Localised solutions	As stated in Local Plan policy T1, the council will apply London Plan policy T2, Healthy Streets, in accordance with the Lambeth Healthy Routes Plan and Low Traffic Neighbourhood Plan, to facilitate trips by walking and cycling in order to reduce health inequalities. Public realm improvements should accord with TfL's Healthy Streets Approach.	Lambeth is applying the Local Plan policy T1 and London Plan policy T2.
2.1.11	Emissions from developments and buildings	Organise training for planning officers on air quality and the implementation of air quality policy.	To be carried out in 2024
2.1.12	Emissions from developments and buildings	Require developers to certify, post-approval, that air quality relevant design decisions, mitigation measures and other conditions have been implemented in accordance with the agreed strategy.	Requirement to be applied in 2024
2.1.13	Emissions from developments and buildings	Develop a standard condition to be used in permissions for major developments, to secure monitoring and reporting of real time air quality data to the council during construction phase. Data will be recorded on the council's construction emissions alert and response system, and be made publicly available and accessible.	To be carried out in 2024
2.1.14	Emissions from developments and buildings	Consider potential to use developer contributions for a construction emissions alert and response system.	Assessment has begun as part of the Construction Emissions Officer workstream.

Measure	LLAQM Action Matrix Theme	Action	Progress
2.2.1	Emissions from developments and buildings	Pilot a construction emissions alert and response system, in which construction emission spikes from major developments trigger an enforcement response. Fully develop this system, subject to results of the pilot.	Pilot project carried out in 2023 with a real time air quality monitor installed at a construction site in Lambeth.
2.2.2	Emissions from developments and buildings	Apply and enforce NRMM policies for all relevant applications. Maintain participation in pan-London NRMM enforcement scheme and assist implementation as required, subject to continuation of the scheme.	Lambeth continue to enforce NRMM policies and participate in the pan-London NRMM enforcement scheme.
3.1.1	Emissions from developments and buildings	Make full use of grant funding available through the Green Homes Grant, Social Housing Decarbonisation Fund, Home Upgrade Grant, and other central government and GLA funding programmes, alongside council resources, to retrofit Lambeth's council homes, reducing gas boiler use through energy efficiency measures, and where possible removing existing gas boilers and installing low carbon, clean heating.	•In 2023 approximately one hundred homes were retrofitted using funding from the Social Housing Decarbonsation Fund (SHDF) Wave 1. • Work was ongoing on 24 homes that were receiving a whole house retrofit through the National Net Zero Retrofit Accelerator. An unsuccessful bid was made for funding through SHDF Wave 2.1 and work began on a bid for Wave 2.2 to be submitted in 2024.
3.1.2	Emissions from developments and buildings	Work with residents to demonstrate the indoor air quality benefits of replacing gas with electric cooking. Undertake a programme to replace gas cooking with electric cooking in properties where there is resident support, and subject to affordability of fuel bill impacts.	To be carried out in 2025
3.1.3	Emissions from developments and buildings	Commit to review feasibility of installing low carbon, clean heating technologies like air and ground source heat pumps in council estates/blocks/houses, each time existing gas boilers need to be replaced. Commit to installing low carbon, clean heating technologies where technically feasible, within available budgets, and with affordable fuel bill impacts.	Reviews of the council's housing stock and the potential to install low carbon heating where feasible are ongoing.
3.1.4	Emissions from developments and buildings	Eliminate solid fuel heating in all council properties.	Lambeth are not aware of any council properties that rely on solid fuel to heat their homes.

Measure	LLAQM Action Matrix Theme	Action	Progress
3.1.5	Emissions from developments and buildings	Make full use of grant funding available through the Public Sector Decarbonisation Scheme and other central government and GLA funding programmes, alongside council resources, to retrofit Lambeth's council's non-residential buildings, reducing gas boiler use through energy efficiency measures, and where possible removing existing gas boilers and installing low carbon, clean heating.	**PSDS 1 Corporate – 5 libraries and 1 community centre** • Completed in April 2023 • Now at post-completion monitoring stage • First annual report from the Monitoring and Evaluation (M&V) contractor shows savings in libraries have exceeded expectations • Data for the community centre not available yet **PSDS 1 Brockwell Hall** • Ongoing works • Ground Source Heat Pump (GSHP) being installed in the listed building will provide heating/hot water to the main building, the stables block and the new extension • Completion expected by end of 2024 **PSDS 1 Schools – 21 schools** • Ongoing works • Measures installed – and mainly operating - at all sites, waiting for commissioning at 3 sites • Completion expected by September/October **PSDS 3a – 1 library and 1 community building** • Completed in June 2023 • Now at post-completion monitoring stage • Consumption/emission data not available yet **PSDS 3b – 10 schools and 2 leisure centres** • Ongoing works • Almost all measures have been/are being installed at all sites • Completion expected by November/December

Measure	LLAQM Action Matrix Theme	Action	Progress
3.2.1	Emissions from developments and buildings	Maximise onsite renewable energy generation and low carbon production for all major developments in accordance with London Plan policy and guidance.	Onsite renewable energy generation and low carbon production for all major developments is being maximised in line with the London Plan.
3.2.2	Emissions from developments and buildings	Develop a Local Area Energy Planning process for whole energy system decarbonisation, including upgrading key utilities and electricity infrastructure to enable our energy to come from 100% renewable and zero carbon sources.	To be carried out in 2024
3.2.3	Emissions from developments and buildings	Apply London Plan Air Quality Positive Guidance on reducing emissions from combustion plant.	London Plan Air Quality Positive Guidance applied
3.2.4	Emissions from developments and buildings	Wherever possible, seek to curb the use of biomass in accordance with The Control of Dust and Emissions during Construction and Demolition Supplementary Planning Guidance, The London Plan, and emerging Air Quality Positive/Air Quality Neutral London Plan Guidance.	As per the Control of Dust and Emissions during Construction and Demolition Supplementary Planning Guidance the use of biomass boilers are avoided where possible.
3.2.5	Public health and awareness raising	Improve indoor air quality in the private rented sector by tackling damp and mould. This will include: • Promoting simplified guidance for tenants on their rights, and the process for the council to take enforcement action against landlords that refuse to make necessary repairs to tackle damp and mould • Undertaking a communications campaign to ensure Lambeth residents are aware of their rights, and steps they can take if they are living with damp and mould • Promoting new guidance for tenants and landlords on preventing the formation of damp and mould • Making template letters available to support tenants to initiate the process • Updating the council webpages with the latest information and guidance	Letters sent to homes in the private rented sector with low EPC ratings in January 2023 promoting guidance on tenants rights regarding damp and mould, advice on how to ensure landlords carry our necessary remedial works, including template letters and a link to updated council webpages.
3.2.6	Public health and awareness raising	Launch a communications campaign to dissuade Lambeth residents from burning wood in their homes.	Advert included in the Autum/Winter 2023 edition of Lambeth Talk raising awareness around the risks of burning wood in your home.

Measure	LLAQM Action Matrix Theme	Action	Progress
3.2.7	Public health and awareness raising	Enforcement officers to undertake training on restrictions on the sale of coal, wet wood and manufactured solid fuels that can be burned in the home.	Training delivered
3.2.8	Public health and awareness raising	Promote uptake of central government and GLA grant funding to individual households, social and private landlords, to reduce gas boiler use through energy efficiency measures, and where possible remove existing gas boilers and install low carbon, clean heating.	To be carried out in 2024
4.1	Monitoring and other core statutory duties	The Climate Change and Sustainability team to review Cabinet Member Delegated Decision Reports and Officer Delegated Decision Reports, and provide recommendations to ensure consistency of council decisions with air quality policy.	The Climate Change and Sustainability team review all Cabinet Member and Officer Delegated Decision Reports and provides recommendations to ensure consistency with air quality policy.
4.2	Public health and awareness raising	Work to eliminate mould and damp due to structural issues in council properties.	Work to tackle damp and mould due to structural issues in council properties is ongoing.
4.3	Public health and awareness raising	Launch a communications campaign to inform residents about steps they can take to improve indoor air quality.	To be carried out in 2024
4.4	Public health and awareness raising	Provide air quality training to housing officers to enable more effective interventions and better communication with residents	To be carried out in 2024
4.5	Emissions from developments and buildings	Use water-based paints for indoor refurbishments on council housing estates, and audit materials used for refurbishment for potential negative indoor air quality impacts, reducing exposure to formaldehyde and other toxins wherever possible.	Water based paints are used in refurbishment works in council housing estates.
4.6	Public health and awareness raising	Take action to limit air pollution from events, in particular large and major events, by strengthening the requirements in the council's Green Events Guide. This will include: Minimising deliveries through consolidation and use of local companies where possible Reviewing the availability of electric vehicle charging	To commence when the next Green Events Guide consultation begins

Measure	LLAQM Action Matrix Theme	Action	Progress
		points, for use by organisers, suppliers and traders Encouraging attendees on all communications to travel to events through walking, cycling or public transport Review feasibility and introduce new requirements to maximise bike storage at large events Implementing on-site renewable power generation, or batteries charged with solar/renewable energy off-site, where feasible Ensuring that generators are not left idling when not being used Where generators are unavoidable, expecting the use of hybrid generators Using mains power where available rather than temporary power Prohibiting the burning of wood, and only permitting smokeless fuels and designs for stoves and bonfires	
4.7	Public health and awareness raising	Conduct an annual review of parks machinery, including ground care machinery, leaf blowers, and hedge cutters, and commit to introducing electric/zero emissions machinery where feasible	Annual reviews undertaken
4.8	Public health and awareness raising	Invest in power infrastructure upgrades in and around Lambeth's parks to reduce pollution from idling ice cream vans, diesel generators and other fossil fuel uses by food and drink outlets	To be carried out in 2025
4.9	Public health and awareness raising	Restrict access of ice cream vans with freezers powered by diesel and petrol engines, to streets next to schools, to reduce exposure of school children to pollution from idling engines, as part of the school superzone project	To be carried out in 2024
4.1	Public health and awareness raising	Minimise the potential negative impact of tree planting on local air quality (e.g. the build-up of pollution within street canyons by reducing air-flow, or increased BVOC emissions) through appropriate species selection and location of new trees	Appropriate trees and locations selected

Measure	LLAQM Action Matrix Theme	Action	Progress
4.11	Public health and awareness raising	Work towards the following borough-wide commitments set out in the Climate Action Plan: Increase the diversion rate away from landfill and incineration to at least 70% by 2030; reduce organics disposal to landfill and incinerators by 25% by 2030; enable 3-stream segregated waste collection including food/recyclables/ residual by 2026	Lambeth Municipal Waste management Strategy published 2023 committing Lambeth to introduce fortnightly non-recyclable waste collection, expand food waste services and promote food waste reduction.
4.12	Public health and awareness raising	Reduce residual waste from 397 kg per household in 2017/18 to less than 375 kg by 2025. By 2025 achieve a 37% household recycling rate and 60% recycling rate of local authority collected commercial waste.	Lambeth Municipal Waste management Strategy published 2023 committing Lambeth to introduce fortnightly non-recyclable waste collection, expand food waste services and promote food waste reduction.
4.13	Public health and awareness raising	Review current smoking cessation promotion materials to include links with- and highlight the importance of indoor air quality.	Review undertaken
4.14	Public health and awareness raising	Create an internal awareness raising campaign for council staff on air quality, aligned to the workplace health objectives.	To be carried out in 2024
5.1	Public health and awareness raising	Identify council housing properties with poor ventilation as part of a stock condition survey, and implement a programme to improve ventilation, prioritising mechanical ventilation for properties most exposed to pollution sources.	Stock condition survey is ongoing
5.2	Public health and awareness raising	Identify housing estates with the highest exposure to air pollution, and develop estate-based action plans, developed by residents working with the council.	To be carried out in 2025
5.3	Public health and awareness raising	Invest in green screens and other physical barriers at Lambeth schools most exposed to roadside pollution	Fifteen schools have had Green Screens installed, meaning every suitable school in the borough has been offered a Green Screen and all of those that accepted have had the screens installed.
5.4	Public health and awareness raising	Introduce green infrastructure on housing estates, including new trees and hedgerows, to reduce the exposure of residents on estates to pollution from busy roads	To be carried out in 2025

Measure	LLAQM Action Matrix Theme	Action	Progress
5.5	Public health and awareness raising	Expand green infrastructure in parks where appropriate to limit the exposure of people using parks and green spaces to local pollution sources	To be carried out in 2025
5.6	Public health and awareness raising	As part of Lambeth's Tree Planting Strategy, prioritise the achievement of local air quality benefits through appropriate species selection and location of new trees	Lambeth's Urban Forest Strategy was published in November 2023, which outlines how tree planting can help to mitigate environmental risks including poor air quality.
5.7	Public health and awareness raising	Investigate the effectiveness of outdoor air filtration/purification systems in enclosed/semi-outdoor spaces	To be carried out in 2024
5.8	Emissions from developments and buildings	Ensure adequate, appropriate, and well-located green space and green infrastructure is included in new developments, in accordance with Local Plan policy EN1 and London Plan policy G5 (Urban Greening Factor).	Local Plan policy EN1 and London Plan policy G5 (Urban Greening Factor). are being applied
5.9	Emissions from developments and buildings	Protect, expand and improve green Infrastructure, including trees, across the borough in accordance with Local Plan policies EN1 and Q10.	Local Plan policies EN1 and Q10 are being applied
5.1	Emissions from developments and buildings	Promote the use of green infrastructure as a part of Air Quality Positive proposals, in accordance with emerging London Plan Air Quality Positive guidance.	London Plan Air Quality Positive guidance is being applied
5.11	Reducing exposure to pollution	Continue to support the use of empty and derelict space in the borough to promote and support food growing and tree planting. Expand this work, subject to funding.	Lambeth supports using empty space in the borough to promote and support food growing and tree planting.
6.1	Monitoring and other core statutory duties	• Develop an advanced air quality information service. This will include: o A new monitoring network of lightweight air quality monitors across Lambeth, measuring NO2, PM2.5 and PM10 for at least 30 locations. Sensors will be located to prioritise sensitive receptors and areas with poorer air quality, while ensuring geographic spread across the borough. o Continued operation of the council's 3 air quality monitoring stations, and over 100 diffusion tubes.	The Climate Change and Sustainability Team have worked in collaboration with the IT and Digital Services teams to asses the needs for a new Air Quality Information Service. Due to go out to tender and appoint a contractor to implement the service in 2024.

Measure	LLAQM Action Matrix Theme	Action	Progress
		o The creation of an online interface, accessible through the council's website, for residents to access accurate, accessible and up-to-date air quality data and analysis. Promotion of this information so it is accessible to all. o Air quality modelling in or close to schools, care homes and other locations where those vulnerable to air pollution spend time, including modelling of potential impacts of mitigation measures. Modelling results will be published online. o The redevelopment of airText to provide air quality information and advice in a way that is accessible and useful to members of the public, including as a purpose-built app for smartphone use. This redeveloped service will be promoted to Lambeth residents for wide take up, with targeting of groups that are most vulnerable to pollution.	
6.2	Monitoring and other core statutory duties	Coordinate with and support the rollout of air quality monitors by partner organisations across Lambeth.	Lambeth's Climate Change and Sustainability Team have supported a community group to install a Breathe London node with a council managed park space, and will continue to support residents or community groups to install monitoring infrastructure wherever possible.
6.3	Monitoring and other core statutory duties	Use air quality data to shape council decision making, and inform the allocation of resources to mitigate air pollution.	Air quality data is collected and processed and informs decisions made by Lambeth.
6.4	Monitoring and other core statutory duties	Develop a set of indicators to measure the impact of council and partner interventions to tackle air pollution.	To be carried out in 2025
7.1	Public health and awareness raising	Improve the provision of useful, easy to understand air quality information to residents on council estates.	Lambeth are working with the Environmental Research Group at Imperial College to trial using display to share useful and easy to understand air quality information. Based on the outcome of the trial we will explore installing the displays on estates.

Measure	LLAQM Action Matrix Theme	Action	Progress
7.2	Public health and awareness raising	Monitor air quality in Lambeth's parks and green spaces, and communicate the health benefits of spending time in these spaces.	The parks team continues to promote the health benefits of utilising green spaces.
8.1	Public health and awareness raising	Work with businesses, institutions and other stakeholders across the borough to develop a Clean Air Pledge, working together to drive down pollution.	To be carried out in 2025
8.2	Public health and awareness raising	Collaborate with partner institutions to deliver Lambeth's Climate Action Plan	The Climate Change and Sustainability Team continue to lead on the implementation of the actions, by the council and partners, laid out in the Climate Action Plan.
8.3	Public health and awareness raising	Recruit for and launch an Air Quality Community Forum, comprising residents and local stakeholders, to help shape the council's approach to tackling air pollution, and hold the council to account for its progress towards its air quality targets.	In partnership with Impact on Urban Health, Lambeth appointed Centric Community Research to co-design with community researchers for the Air Quality Community Forum. Community Researchers are being recruited and the forum will have its first meeting in 2024.
8.4	Public health and awareness raising	Support a thriving network of community groups that through greening and other measures, improve air quality and exposure to better air quality for Lambeth residents.	To be carried out in 2025
8.5	Public health and awareness raising	Coordinate the Council's efforts with large institutions, community groups, local businesses and residents to promote active travel, reduce road freight and electrify road transport.	The Climate Change and Sustainability are the first point of contact for community groups, local businesses and residents interested in making interventions to reduce air pollutant emissions. The team signposts those in need of support and assists wherever possible.
8.6	Public health and awareness raising	Strengthen engagement with Lambeth's Clinical Commissioning Group/ICS and GP surgeries on air quality issues, to better target residents with respiratory and cardiovascular conditions.	Engagement with Lambeth's Clinical Commissioning Group/ ICS and GP surgeries is ongoing and air quality as a major public health risk is made a priority.
8.7	Public health and awareness raising	Create a 'train the trainer' programme on air quality with GP surgeries in the borough using a whole practise approach to help create better awareness with residents on health impacts of air quality and what to do to help limit the effects of air quality on health.	To be carried out in 2025

3. Planning Update and Other New Sources of Emissions

Table L. Planning requirements met by planning applications in Lambeth in 2023

Condition	Number
Number of planning applications where an air quality impact assessment was reviewed for air quality impacts	30
Number of planning applications required to monitor for construction dust	12
Number of CHPs/Biomass boilers refused on air quality grounds	0
Number of CHPs/Biomass boilers subject to GLA emissions limits and/or other restrictions to reduce emissions	0
Number of developments required to install Ultra-Low NO_X boilers	5
Number of developments where an AQ Neutral building and/or transport assessments undertaken	20
Number of developments where the AQ Neutral building and/or transport assessments not meeting the benchmark and so required to include additional mitigation	1
Number of planning applications with S106 agreements including other requirements to improve air quality	0
Number of planning applications with CIL payments that include a contribution to improve air quality	0
NRMM: Central Activity Zone, Canary Wharf and Opportunity Areas Number of conditions related to NRMM included. Number of developments registered and compliant. Number of audits % of sites unregistered prior to audit Please include confirmation that you have checked that the development has been registered with the GLA through the relevant NRMM website and that all NRMM used on-site is compliant with Stage IV of the Directive and/or exemptions to the policy.	15 conditions included 6 sites registered and compliant 0 unregistered
NRMM: Greater London (excluding Central Activity Zone, Canary Wharf and Opportunity Areas) Number of conditions related to NRMM included. Number of developments registered and compliant. Number of audits % of sites unregistered prior to audit Please include confirmation that you have checked that the development has been registered at www.nrmm.london and that all NRMM used on-site is compliant with Stage IIIB of the Directive and/or exemptions to the policy.	97 conditions included 18 sites registered and compliant 0 unregistered

3.1 New or significantly changed industrial or other sources

No new sources identified

4. Additional Activities to Improve Air Quality

4.1 London Borough of Lambeth Fleet

As of 2023, Lambeth Council's vehicle fleet included 44 battery electric vehicles, constituting 21% of the total fleet.

4.2 NRMM Enforcement Project

Lambeth continues to work with LB Merton and the Regulatory Services Partnership (LBs Merton, Richmond and Wandsworth) on the pan-London NRMM project.

4.2 Air Quality Alerts

Lambeth supports promotion of airTEXT. In 2021 Lambeth submitted a joint funding bid with Southwark to redevelop the current airTEXT alert system to improve sign ups and reach and create a new digital alert system to be used by schools and health care settings within both boroughs.

Appendix A Details of Monitoring Site Quality QA/QC

A.1 Automatic Monitoring Sites

Routine calibrations of equipment and periodic site audits were carried out by Enviro Technology, and Imperial College London's Environmental Research Group (ERG). Routine calibrations took place every two weeks

Matts Monitors Ltd have been awarded a contract to deliver the routine calibrations and site audits to March 2024. Ricardo PLC is contracted by Matts Monitors to deliver fortnightly LSO visits.

We continue to be members of the London Air Quality Network, and ERG at Imperial College London is responsible for the automatic monitoring stations' data collection and data processing.

PM_{10} Monitoring Adjustment

Routine calibrations of equipment and periodic site audits were carried out by Enviro Technology, and Imperial College London's Environmental Research Group (ERG). Routine calibrations took place every two weeks.

Matts Monitors Ltd deliver the routine calibrations and site audits. Ricardo PLC is contracted by Matts Monitors to deliver fortnightly LSO visits. We continue to be members of the London Air Quality Network, and ERG at Imperial College London is responsible for the automatic monitoring stations' data collection and data processing.

A.2 Diffusion Tubes

Analysis was performed by Gradko International Ltd. Tubes are prepared with 20% Triethanolamine (TEA) in Water. Tubes are analysed by UV Sprectrophometry. The preparation procedures adhere to the guidance detailed in the document 'Diffusion Tubes for Ambient NO2 Monitoring: Practical Guidance for Laboratories and Users', Issue 1a Feb.2008 (issued by AEA Energy and Environment). Gradko participate in the independent AIR-PT scheme and partake in the annual co-location study. Co-located diffusion tubes are installed at Brixton Road air quality monitoring station LB4. We have compared the diffusion tube data at our colocation site to reference equivalent NO2 analysers.

Discussion of Choice of Factor to Use

A national bias-adjustment factor of 0.83 has been used (Gradko bias adjustment factor for 20% TEA in Water in 2022), instead of a local bias-adjustment factor.

Table M. Bias Adjustment Factor

Year	Local or National	If National, Version of National Spreadsheet	Adjustment Factor
2023	National	06/24	0.81
2022	National	03/23	0.83
2021	National		0.84
2020	National		0.81
2019	National		0.93
2018	National		0.93
2017	Local		0.84
2016	Local		0.81

A.3 Adjustments to the Ratified Monitoring Data

Short-term to Long-term Data Adjustment

Data capture by our diffusion tubes was less than 75% at 23 sites. Therefore, the means at those sites had to be annualised. The annualization factor is presented in Table M. We have used background data from the following sites: LB4 Brixton Road, CR5 Norbury, HP1 Honour Oak Park, WM5 Covent Garden. All stations had at least 85% data capture in 2022. All sites outside of Lambeth are well within the recommended radius of under 50 miles and are all representative of typical London urban background locations.

Distance Adjustment

Distance correction has been completed for 17 sites, due to the NO_2 Annual Mean Concentration (bias adjusted and annualised) being greater than 36 µg m^{-3} (within 10% of the annual mean objective) and receptors not being located at a point of relevant exposure. This is to estimate the concentration at the nearest receptor. The Fall off with Distance Adjustment calculator included within the Diffusion Tube Data Processing Tool v4.1 published by Defra has been used to perform the calculations. We have used an average of : LB4 Brixton Road, CR5 Norbury, HP1 Honour Oak Park, WM5 Covent Garden.

Table N. Short-Term to Long-Term Monitoring Data Adjustment

Site ID	Annualisation Factor LB4 - Brixton Road	Annualisation Factor CR5 - Norbury	Annualisation Factor HP1 - Honour Oak Park	Annualisation Factor WM5 - Covent Garden	Average Annualisation Factor	Raw Data Annual Mean (µg m^{-3})	Annualised Annual Mean (µg m^{-3})	Comments
DT5	0.9808	0.9327	0.9313	0.9293	0.9435	41.9	39.5	
DT15	1.0042	0.9397	1.0388	0.9902	0.9932	36.4	36.1	
DT43	1.0463	1.0254	1.0881	1.1087	1.0671	39.2	41.9	
DT44	0.9798	0.9716	1.0902	1.0714	1.0283	28.4	29.2	
DT45	0.9501	0.9319	0.9838	0.9902	0.9640	24.1	23.2	
DT46	0.9678	0.9875	1.0721	1.0523	1.0199	26.3	26.8	
DT47	1.0343	0.9923	1.0605	1.0410	1.0320	32.6	33.6	
DT48	0.9737	0.9926	1.0937	1.0896	1.0374	37.9	39.3	
JP3	1.0208	0.9939	0.9809	0.9742	0.9924	19.3	19.2	
LI	1.0188	1.1089	1.2422	1.1737	1.1359	67.5	76.7	
LO	0.9836	0.8847	0.9744	0.9676	0.9526	23.2	22.1	
LTN12	1.0193	1.0055	1.0199	1.0016	1.0116	43.7	44.2	
LTN16	0.9852	0.9902	1.0488	1.0267	1.0127	29.0	29.4	
SCOOT	0.9798	0.9716	1.0902	1.0714	1.0283	38.9	40.0	
SP2	0.9821	0.9346	1.0657	1.0517	1.0085	19.1	19.2	
SR6	0.9590	1.0076	0.8726	0.8737	0.9282	36.8	34.2	
SR8	1.0643	1.0345	1.0689	1.1053	1.0682	50.7	54.2	
SR10	1.0245	0.9821	1.0391	1.0249	1.0176	33.7	34.3	
SR20	0.9497	0.9002	0.8503	0.8763	0.8941	55.8	49.9	
SR21	0.9865	0.9643	0.9801	0.9657	0.9741	40.6	39.5	
ST2	0.9912	0.8751	1.0852	1.0282	0.9949	32.2	32.0	
STA1	1.0131	0.9995	0.9463	0.9267	0.9714	43.8	42.5	
VX12	0.9429	0.9044	0.8716	0.8810	0.9000	21.8	19.6	

Table O. NO_2 Fall off With Distance Calculations

Site ID	Distance (m): Monitoring Site to Kerb	Distance (m): Receptor to Kerb	Monitored Concentration (Annualised and Bias Adjusted (µg m^{-3})	Background Concentration (µg m^{-3})	Concentration Predicted at Receptor (µg m^{-3})	Comments
DT1, DT2, DT3	0.5	1.0	57.2	24.2	**53.2**	*Predicted concentration at Receptor above AQS objective.*
DT6	0.5	1.5	45.4	24.2	**41.3**	*Predicted concentration at Receptor above AQS objective.*
DT13	0.5	0.8	36.0	24.2	35.0	
DT17	0.5	1.0	41.9	24.16	*39.8*	*Predicted concentration at Receptor within 10% the AQS objective.*
DT19	0.5	0.8	41.2	24.16	*39.8*	*Predicted concentration at Receptor within 10% the AQS objective.*
DT27	0.5	1.0	53.3	24.2	**49.7**	*Predicted concentration at Receptor above AQS objective.*
DT28	0.5	1.0	45.0	24.2	**42.5**	*Predicted concentration at Receptor above AQS objective.*
DT29	0.5	1.0	51.6	24.2	**48.2**	*Predicted concentration at Receptor above AQS objective.*
DT30	0.5	1.0	39.5	24.2	*37.7*	*Predicted concentration at Receptor within 10% the AQS objective.*
DT31	0.5	0.8	53.6	24.2	**51.2**	*Predicted concentration at Receptor above AQS objective.*
LI	5.0	5.5	62.1	24.2	**61.1**	*Predicted concentration at Receptor above AQS objective.*
LTN2	0.5	0.8	37.3	24.2	*36.2*	*Predicted concentration at Receptor within 10% the AQS objective.*
SR3	0.5	0.8	43.4	24.2	**41.8**	*Predicted concentration at Receptor above AQS objective.*
SR4	0.5	1.0	43.3	24.2	**41.0**	*Predicted concentration at Receptor above AQS objective.*
SR8	0.5	0.8	43.9	24.2	**42.2**	*Predicted concentration at Receptor above AQS objective.*
SR20	0.5	0.8	40.4	24.2	*39.1*	*Predicted concentration at Receptor within 10% the AQS objective.*

Site ID	Distance (m): Monitoring Site to Kerb	Distance (m): Receptor to Kerb	Monitored Concentration (Annualised and Bias Adjusted (µg m^{-3})	Background Concentration (µg m^{-3})	Concentration Predicted at Receptor (µg m^{-3})	Comments
ST1	2.0	4.0	36.1	24.2	34.2	

Appendix B Full Monthly Diffusion Tube Results for 2023

Table P. NO_2 2023 Diffusion Tube Results ($\mu g/m^3$)

DT ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec	Annual Mean: Raw Data	Annual Mean: Annualised and Bias Adjusted <(x.x)>	Annual Mean: Distance Corrected to Nearest Exposure	Comment
AS1	531242	178675	27.2	32.8	24.1	23.1	21.3	19.7	17.4	18.9	25.1	27.2	30.9	22.7	24.2	19.6		
AS2	531345	178627	23.4	28.5	21.0	19.3	16.6	15.1	12.4	15.3	20.7	23.4	28.0	20.6	20.4	16.5		
BHLTN1	530089	174598	28.8	34.6	25.2	23.5	24.3	22.8	-	22.9	28.1	28.8	-	47.3	28.6	23.2		
BHLTN2	530017	174216	36.9	45.3	33.7	35.7	35.3	33.8	28.3	31.5	41.9	36.9	31.7	22.9	34.5	27.9		
BHLTN3	530284	174044	24.9	33.9	23.1	23.6	20.1	-	-	19.0	19.5	24.9	25.7	16.7	23.1	18.7		
BHLTN4	530525	174616	24.9	30.8	20.2	19.6	-	16.5	12.6	16.8	20.3	24.9	-	18.6	20.5	16.6		
BHLTN5	530138	174836	5.1	32.7	22.6	20.6	18.5	18.0	-	18.3	-	5.1	26.5	-	18.6	15.1		
BHLTN6	530301	173773	27.1	33.5	24.0	21.7	21.4	19.5	15.5	18.1	21.4	27.1	-	15.9	22.3	18.1		
DT1	531070	175593	-	70.9	69.3	63.4	71.3	74.9	60.6	67.0	72.6	-	-	-	-	-		Triplicate Site with DT1, DT2 and DT3 - Annual data provided for DT3 only
DT2	531070	175593	-	75.4	62.6	68.4	66.7	69.5	63.8	67.2	74.4	-	-	-	-	-		Triplicate Site with DT1, DT2 and DT3 - Annual data provided for DT3 only
DT3	531070	175593	-	69.9	66.3	63.7	68.8	64.7	59.2	64.0	70.2	-	117.7	47.0	70.6	57.2	53.2	Triplicate Site with DT1, DT2 and DT3 - Annual data provided for DT3 only
DT4	531139	180048	30.8	38.7	29.4	28.0	21.6	21.4	23.2	23.4	28.3	30.8	30.6	27.7	27.8	22.5		
DT5	531214	179907	47.5	51.3	38.7	38.7	36.2	39.1	-	-	-	47.5	-	36.0	41.9	32.0		
DT6	531494	179951	30.3	39.4	27.1	26.6	22.6	246.0	41.7	-	62.7	30.3	33.8	-	56.1	45.4	41.3	
DT7	530817	178122	25.2	40.7	28.7	32.1	29.7	30.0	24.6	28.7	31.7	25.2	33.9	27.8	29.9	24.2		
DT8	530868	177740	40.4	47.2	-	76.2	33.5	34.2	-	-	39.9	40.4	33.3	27.3	41.4	33.5		
DT9	531196	177653	41.2	35.1	41.9	40.3	41.0	39.1	32.4	34.5	45.6	41.2	39.6	31.3	38.6	31.3		
DT10	531250	177464	28.2	34.2	25.0	23.6	22.1	21.3	16.3	20.5	26.9	28.2	-	-	24.6	19.9		
DT11	531093	177419	39.4	42.7	33.2	36.2	34.7	35.9	27.0	31.2	37.1	39.4	36.9	27.3	35.1	28.4		

DT12	530404	176321	39.6	45.1	36.6	38.0	37.8	32.4	32.4	33.5	42.2	39.6	39.9	-	37.9	30.7		
DT13	530363	176269	38.2	114.4	34.8	35.5	38.8	35.3	26.3	30.4	38.4	38.2	-	59.0	44.5	36.0	35.0	
DT14	530105	175956	39.1	49.6	37.9	38.3	38.6	33.2	33.1	32.5	-	39.1	39.0	28.6	37.2	30.1		
DT15	530009	175719	-	46.3	35.3	35.7	34.0	34.2	-	-	37.3	-	-	31.8	36.4	29.3		
DT16	529413	175284	36.5	42.8	36.0	39.9	36.3	37.6	27.5	31.0	39.7	36.5	32.1	22.7	34.9	28.3		
DT17	530916	175784	43.5	49.1	41.7	47.6	47.5	-	43.0	84.9	46.7	43.5	-	70.2	51.8	41.9	39.8	
DT18	531020	175699	72.4	46.1	33.2	36.7	37.3	35.0	24.5	30.6	-	72.4	34.7	24.9	40.7	33.0		
DT19	531027	175320	45.8	55.5	50.8	54.4	63.2	61.7	37.2	43.1	-	45.8	-	-	50.8	41.2	39.8	
DT20	531038	175092	39.2	41.7	29.2	31.6	29.6	28.1	27.2	-	-	39.2	42.9	27.6	33.6	27.2		
DT21	531231	174607	27.4	34.2	21.9	24.6	21.8	-	-	20.1	25.0	27.4	27.8	20.0	25.0	20.3		
DT22	530928	174849	23.1	33.5	23.0	20.6	-	17.0	15.0	18.8	20.0	23.1	28.6	-	22.3	18.0		
DT23	530781	174682	57.6	35.2	26.6	30.2	27.3	28.2	17.0	22.6	-	57.6	29.5	142.4	43.1	34.9		
DT24	530150	173680	31.1	38.3	28.4	30.8	32.3	26.2	19.2	21.1	30.1	31.1	32.0	22.6	28.6	23.2		
DT25	530461	173470	38.0	53.9	43.3	47.8	52.3	51.0	35.3	37.1	48.7	38.0	39.3	30.4	42.9	34.8		
DT26	530452	173105	31.5	44.6	34.4	32.6	39.0	30.1	22.7	-	31.9	31.5	36.2	-	33.5	27.1		
DT27	530255	172632	64.8	72.8	72.2	65.2	61.6	66.8	48.0	69.0	72.4	64.8	-	-	65.8	53.3	49.7	
DT28	530217	172353	58.7	59.0	59.2	50.9	54.2	45.7	71.2	44.8	61.5	58.7	55.7	47.0	55.6	45.0	42.5	
DT29	530130	172013	64.3	67.1	70.8	71.6	70.8	61.4	53.7	62.4	70.3	64.3	64.3	42.8	63.7	51.6	48.2	
DT30	530015	171489	47.6	57.3	50.3	55.1	51.9	44.7	40.9	43.4	49.2	47.6	-	-	48.8	39.5	37.7	
DT31	530101	171148	65.4	78.0	59.7	70.6	78.7	69.9	55.7	-	78.3	65.4	-	40.2	66.2	53.6	51.2	
DT32	529730	175446	26.0	34.2	23.5	27.8	25.2	25.9	-	-	22.7	26.0	29.1	-	26.7	21.6		
DT33	529217	175648	29.4	-	26.9	25.0	22.9	-	16.8	21.4	25.8	29.4	27.6	-	25.0	20.3		
DT34	529130	174288	37.8	48.0	38.9	47.1	45.2	40.2	30.1	36.0	40.5	37.8	42.2	-	40.3	32.7		
DT35	529263	174190	-	40.4	31.0	36.7	32.5	29.2	24.6	31.1	37.4	34.3	-	23.2	32.0	25.9		
DT36	529420	173996	41.6	44.4	34.9	40.9	42.1	36.2	30.0	31.8	43.1	41.6	35.8	23.2	37.1	30.1		
DT37	530821	173309	30.5	37.9	30.3	32.1	32.4	30.3	17.7	24.5	33.0	30.5	33.6	20.9	29.5	23.9		
DT38	531160	173103	36.7	43.5	34.9	34.7	35.8	31.5	30.4	33.3	48.9	36.7	38.2	-	36.8	29.8		
DT39	531731	173026	42.8	53.6	39.6	41.6	42.6	-	-	33.9	-	42.8	37.8	28.9	40.4	32.7		
DT40	532341	172918	19.4	47.4	38.0	37.0	39.5	36.6	35.8	32.1	-	19.4	-	-	33.9	27.5		
DT41	531839	172552	49.8	49.9	41.7	42.7	37.2	37.1	40.7	-	40.9	49.8	52.9	-	44.3	35.9		
DT42	531923	172225	-	42.8	38.3	39.5	33.2	33.8	31.0	32.9	40.1	-	67.5	28.0	38.7	31.4		
DT43	531936	171795	-	45.5	-	39.4	29.1	29.2	35.7	33.5	-	-	68.0	33.4	39.2	33.9		
DT44	533016	171534	-	36.0	27.6	31.7	29.5	26.8	20.9	24.9	30.0	-	-	-	28.4	23.7		
DT45	533328	171264	30.9	28.2	20.0	21.3	19.3	19.2	13.6	-	40.4	-	-	-	24.1	18.8		
DT46	531989	174329	-	33.5	27.5	26.4	-	24.6	22.5	23.1	-	-	-	-	26.3	21.7		
DT47	531860	174353	-	39.5	30.6	34.0	34.1	35.6	28.2	-	-	-	34.9	23.5	32.6	27.2		
DT48	531972	175331	-	46.6	39.2	-	29.2	32.6	39.0	32.5	45.9	-	-	-	37.9	31.8		
DT49	531856	175680	-	30.6	24.1	23.6	22.9	21.6	14.6	18.6	20.7	-	27.5	19.8	22.4	18.1		

DT50 1	530657	175133	40.8	38.6	28.0	28.5	26.7	26.1	20.1	24.2	-	31.5	31.5	-	-	-		Triplicate Site with DT50 1, DT50 2 and DT50 3 - Annual data provided for DT50 3 only
DT50 2	530657	175133	37.9	37.8	27.3	28.7	23.8	24.3	-	-	31.2	52.5	32.4	21.9	-	-		Triplicate Site with DT50 1, DT50 2 and DT50 3 - Annual data provided for DT50 3 only
DT50 3	530657	175133	37.7	40.6	28.2	29.9	25.6	25.7	-	-	-	32.0	34.3	22.8	29.5	23.9		Triplicate Site with DT50 1, DT50 2 and DT50 3 - Annual data provided for DT50 3 only
DT51	531557	171047	35.4	44.3	34.1	34.8	34.7	32.9	27.9	31.9	40.9	35.4	31.4	-	34.9	28.3		
JP1	532008	175397	28.3	37.4	27.6	25.6	-	21.2	19.5	20.1	23.9	28.3	29.8	23.1	25.9	21.0		
JP2	532086	175297	-	27.3	17.8	17.1	14.7	12.9	10.7	13.8	13.8	19.4	23.8	15.4	17.0	13.7		
JP3	532030	175130	-	28.1	-	17.3	16.2	-	-	14.0	18.6	20.1	24.0	16.5	19.3	15.6		
LI	531672	176207	-	-	-	180.7	-	-	43.7	14.7	30.9	-	-	-	67.5	62.1	61.1	
LO	531651	176150	-	31.8	22.6	21.5	19.4	16.5	-	-	-	-	27.7	-	23.2	17.9		
LTN1	530622	175112	-	35.5	26.0	25.2	20.8	22.5	16.9	21.8	28.6	29.8	31.3	23.5	25.6	20.8		
LTN2	530068	175106	94.7	44.9	33.7	34.7	32.0	29.0	27.6	-	37.0	94.7	31.6	-	46.0	37.3	36.2	
LTN3	530043	175668	32.9	42.9	31.9	34.0	33.7	29.8	22.3	-	60.4	32.9	35.4	-	35.6	28.9		
LTN4	530465	175865	28.0	33.9	22.9	23.8	20.6	20.1	15.6	19.2	25.1	28.0	26.3	-	24.0	19.4		
LTN5	530917	175578	25.2	30.4	21.2	23.5	20.5	20.6	12.8	17.7	22.6	25.2	26.7	19.0	22.1	17.9		
LTN7	531147	172879	26.7	33.3	24.4	24.2	22.1	20.8	21.4	-	-	26.7	-	18.6	24.2	19.6		
LTN8	530763	172840	26.1	33.4	23.6	21.4	19.4	17.3	15.9	19.3	20.1	26.1	30.0	-	23.0	18.6		
LTN9	530728	172565	21.6	26.8	17.8	16.3	14.6	13.3	10.6	15.2	-	21.6	26.0	17.7	18.3	14.8		
LTN10	531110	172389	23.4	27.8	22.6	21.1	20.7	21.3	15.8	19.2	22.1	23.4	24.4	-	22.0	17.8		
LTN11	530650	172226	45.6	45.1	37.1	41.0	41.3	40.9	28.9	33.9	39.8	-	31.3	22.0	37.0	30.0		
LTN12	530940	172132	-	42.5	32.1	36.1	32.5	-	64.7	-	-	-	49.1	49.2	43.7	35.8		
LTN13	530288	171810	-	32.3	22.3	19.5	17.4	17.1	16.3	18.9	21.1	-	28.7	-	21.5	17.4		
LTN14	531181	171612	-	40.2	31.0	32.4	33.1	29.6	18.6	25.9	32.1	-	28.4	-	30.1	24.4		
LTN15	530713	171417	26.0	33.0	-	-	25.5	21.9	-	19.9	24.3	26.0	26.4	17.7	24.5	19.9		
LTN16	530498	171054	-	37.1	27.6	25.4	-	36.7	22.3	24.0	28.6	-	30.3	-	29.0	23.8		
Point 122	531299	178649	26.4	29.6	21.3	20.9	16.9	16.3	14.1	16.8	20.5	26.4	26.5	19.6	21.3	17.2		
RS1	532317	173611	-	27.8	20.2	17.4	15.8	14.9	11.4	1.8	-	-	24.8	17.3	16.8	13.6		
SCOOT	531137	175822	-	46.3	38.7	38.4	37.6	32.8	36.6	35.4	45.5	-	-	-	38.9	32.4		

SH1	530775	171653	21.6	26.7	19.3	17.9	16.3	14.7	-	15.2	17.8	21.6	22.7	15.4	19.0	15.4		
SP1	530628	177333	22.2	31.3	22.3	21.0	19.1	17.2	11.9	11.6	17.1	22.2	24.9	14.8	19.6	15.9		
SP2	530738	174966	-	29.3	19.3	20.1	18.9	15.7	10.9	-	-	-	-	-	19.1	15.6		
SR1	531267	179825	36.2	43.9	34.8	33.9	31.5	29.0	27.1	31.4	35.1	36.2	41.0	32.6	34.4	27.9		
SR2	531189	179969	34.1	-	29.5	31.6	-	23.9	24.3	-	31.7	34.1	40.0	27.4	30.8	24.9		
SR3	531006	180079	59.5	60.4	50.0	53.2	45.6	46.9	53.2	44.1	61.4	59.5	55.7	-	53.6	43.4	41.8	
SR4	530951	180064	54.4	68.2	48.6	55.6	50.1	53.9	47.8	50.7	55.0	54.4	54.7	48.4	53.5	43.3	41.0	
SR5	530835	179873	44.4	-	42.5	43.8	40.6	46.5	-	37.4	47.5	44.4	-	35.3	42.5	34.4		
SR6	530768	179896	37.1	45.6	36.0	-	-	-	-	31.9	-	37.1	39.6	30.7	36.8	27.7		
SR7	530655	180011	30.7	35.8	28.0	-	21.2	23.0	-	29.3	29.4	30.7	32.4	-	28.9	23.4		
SR8	530823	180123	-	50.2	-	-	42.0	44.6	35.0	-	-	-	70.4	62.1	50.7	43.9	42.2	
SR9	530845	180251	-	-	-	33.1	-	-	-	-	-	37.3	-	-	35.2	28.5		
SR10	530965	180267	-	42.5	-	34.6	30.6	28.5	-	27.1	33.9	36.8	-	35.7	33.7	27.8		
SR11	531020	180433	33.0	40.4	30.8	29.8	23.2	21.6	20.1	24.3	28.6	33.0	34.4	-	29.0	23.5		
SR12	531118	180337	34.9	41.7	30.5	29.1	29.1	28.5	24.7	22.3	32.4	34.9	36.8	29.6	31.2	25.3		
SR13	531287	180420	30.8	38.4	31.9	-	24.7	24.3	21.2	22.9	30.5	30.8	33.7	24.8	28.5	23.1		
SR14	531222	180500	26.7	32.6	23.5	23.6	21.5	20.4	16.6	19.8	24.5	26.7	29.5	21.1	23.9	19.3		
SR15	531259	180282	42.6	45.7	32.6	-	27.9	29.3	31.8	26.7	34.4	42.6	39.5	-	35.3	28.6		
SR16	531205	180162	30.3	39.1	22.7	27.1	22.7	23.1	19.3	20.5	25.5	30.3	32.6	-	26.7	21.6		
SR17	531283	179951	51.3	39.5	32.5	-	22.2	21.8	22.9	24.0	-	51.3	34.4	29.6	32.9	26.7		
SR18	531418	179913	29.6	38.5	26.0	24.8	21.8	20.5	19.1	20.9	26.9	29.6	33.3	27.9	26.6	21.5		
SR19	531056	180134	40.8	44.8	41.8	45.8	47.9	41.2	34.7	-	42.2	40.8	47.5	33.3	41.9	33.9		
SR20	530935	180259	60.5	56.1	-	54.1	42.1	-	-	-	63.0	60.5	54.3	-	55.8	40.4	39.1	
SR21	530902	180319	39.1	-	52.5	43.6	-	38.2	-	31.5	38.0	39.1	42.5	-	40.6	32.0		
SS1	530501	177330	27.3	26.3	23.0	-	19.2	9.5	-	-	23.3	27.3	28.9	21.5	22.9	18.6		
ST1	530804	179582	46.9	52.9	44.7	47.0	44.2	41.7	39.3	38.2	44.0	46.9	49.7	39.6	44.6	36.1	34.2	
ST2	530780	179582	-	-	33.7	32.7	30.3	-	-	-	-	-	-	-	32.2	25.9		
STA1	530703	177997	42.3	-	38.7	-	62.6	-	-	-	44.0	42.3	42.8	33.5	43.8	34.4		
STA2	530621	177957	-	47.2	35.8	44.7	39.1	38.9	-	49.6	46.3	40.3	40.0	-	42.4	34.4		
VP1	530810	178254	33.7	30.3	19.8	17.3	16.2	15.8	13.1	16.9	21.1	33.7	26.3	-	22.2	18.0		
VP2	530800	178341	24.4	30.5	20.9	19.6	-	-	13.2	16.4	21.3	24.4	27.6	-	22.0	17.8		
VX1 1	530371	178067	42.9	42.9	32.2	31.4	29.7	26.1	22.3	27.9	30.0	34.7	37.3	26.1	-	-		Triplicate Site with VX1 1, VX1 2 and VX1 3 - Annual data provided for VX1 3 only

VX1 2	530371	178067	43.7	41.1	32.5	31.2	30.4	27.0	-	39.5	33.6	33.5	36.9	25.9	-	-		Triplicate Site with VX1 1, VX1 2 and VX1 3 - Annual data provided for VX1 3 only
VX1 3	530371	178067	42.7	42.6	33.1	30.7	29.6	27.6	21.7	27.8	-	34.7	35.6	22.9	32.3	26.1		Triplicate Site with VX1 1, VX1 2 and VX1 3 - Annual data provided for VX1 3 only
VX2	530483	178200	27.7	34.2	24.2	21.9	22.7	19.1	17.0	-	23.0	27.7	-	23.6	24.1	19.5		
VX3	530571	178300	26.9	32.2	23.2	21.5	19.1	17.0	15.3	18.6	21.1	26.9	27.9	20.8	22.5	18.3		
VX4	530408	178326	39.5	45.5	34.8	31.8	31.8	28.8	28.2	31.4	38.3	39.5	40.3	29.3	34.9	28.3		
VX5	530440	178522	37.6	46.8	33.5	32.7	30.0	29.8	25.1	28.6	38.3	37.6	37.9	30.2	34.0	27.6		
VX6	530619	178466	30.3	38.9	29.9	25.5	23.3	25.4	-	-	26.9	30.3	33.9	23.9	28.8	23.3		
VX8	530753	178616	28.4	33.1	25.3	22.3	-	20.1	18.3	20.6	22.8	28.4	26.7	-	24.6	19.9		
VX9	530493	178745	39.7	46.7	39.2	37.1	36.0	33.1	26.7	28.8	39.1	39.7	40.6	32.3	36.6	29.6		
VX10	530565	178760	-	35.3	25.9	23.4	23.9	20.7	16.5	22.1	25.5	-	-	22.7	24.0	19.4		
VX11	530729	178897	27.6	33.8	24.0	21.5	-	28.9	17.0	-	24.0	27.6	32.2	24.2	26.1	21.1		
VX12	530858	178878	25.6	28.9	20.7	19.6	17.6	-	-	-	3.6	25.6	32.9	-	21.8	15.9		
VX13	530607	178961	38.7	47.4	36.5	38.1	36.4	33.0	28.2	31.4	38.6	38.7	37.6	31.4	36.4	29.4		
WP1	530281	177513	29.8	36.9	25.3	26.0	27.4	23.9	17.7	-	27.3	29.8	34.7	27.1	27.8	22.5		
WP2	530246	177510	-	37.0	25.8	25.0	23.8	22.8	-	20.1	24.9	-	33.6	26.4	26.6	21.6		

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

☒ **Annualisation has been conducted where data capture is <75% and >25% in line with LAQM.TG22.**

☐ **Local bias adjustment factor used.**

☒ **National bias adjustment factor used.**

☒ **Where applicable, data has been distance corrected for relevant exposure in the final column.**

☐ **London Borough of Lambeth confirm that all 2023 diffusion tube data has been uploaded to the Diffusion Tube Data Entry System**

Notes:

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

NO_2 annual means exceeding 60µg/m^3, indicating a potential exceedance of the NO_2 1-hour mean objective are shown in **bold and underlined**.

See Appendix C for details on bias adjustment and annualisation.

Appendix C Map(s) of Monitoring Locations and AQMAs

Figure A. Map of Non-Automatic Monitoring Site(s)

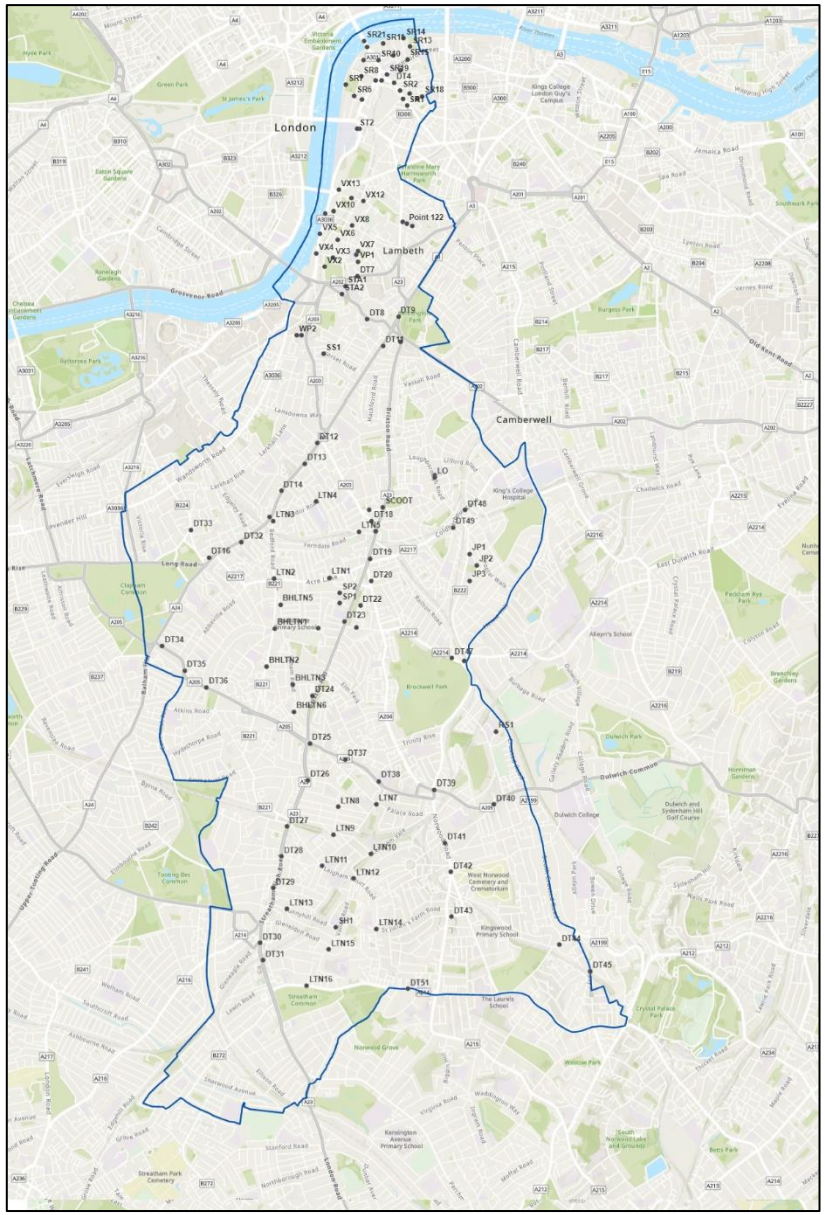
London
Lambeth
Camberwell
Point 122
SR21
SR16
SR14
SR13
SR15
SR40
SR8
SR9
SR19
DT4
SR6
SR2
SR18
SR1
ST2
VX13
VX12
VX10
VX8
VX5
VX6
VX4
VX3
VP1
VX7
VX2
DT7
ST1
STA2
DT8
DT9
WP2
SS1
DT10
DT12
DT13
LO
DT14
LTN4
SCOOT
DT48
LTN3
DT18
LTN5
DT49
DT33
DT32
DT16
DT19
JP1
JP2
JP3
LTN2
LTN1
DT20
SP2
SP1
DT22
BHLTN5
DT23
BHLTN1
DT34
DT47
DT35
BHLTN2
DT36
BHLTN3
DT24
BHLTN6
AS1
DT25
DT37
DT26
DT38
DT39
LTN8
LTN7
DT40
DT27
LTN9
DT41
DT28
LTN10
LTN11
LTN12
DT42
DT29
LTN13
DT43
SH1
LTN14
DT30
LTN15
DT44
DT31
DT45
LTN16
DT51

Figure B. Map of Automatic Monitoring Site(s)