HS2

December 2024

Air Quality and Dust Monitoring Monthly Report – December 2024

London Borough of Camden

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Department for Transport

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A report prepared by EWCs and MWCCs on behalf of HS2 Ltd.

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Monthly Summary

1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of air quality and dust monitoring undertaken in the London Borough of Camden (LBC) during November 2024 and December 2024 respectively.

1.1.2 Figure 1 to Figure 5 in Appendix A present the current worksites together with air quality and dust monitoring locations.

1.1.3 This summary should be read in conjunction with the overview monitoring report available from www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2, which highlights: the applicable standards and guidance, as well as the air quality and dust monitoring methodologies to be implemented by nominated undertakers throughout construction.

1.1.4 The current worksites, as presented in Appendix A, Figure 1 to Figure 5, include:

Skanska Costain Strabag Joint Venture (SCSjv)

Much of the SCSjv works in the Euston/Camden area is currently paused or very limited in scope and scale. The pause is expected to continue for a further 12-18 months.

- Adelaide Road Vent Shaft – works currently paused until April 2025.
- Euston Scissor Cut – limited groundworks, concrete works and materials management.
- Euston Throat Retained Cut – limited groundworks, concrete works and materials management.
- Hampstead Road Bridge –Utilities diversion works.
- Euston Cavern –limited concrete, groundworks and materials management.

Mace Dragados Joint Venture (MDjv)

Delatim - Fit out works

- GF External: Backfilling remaining Omega trench.
- GF outside the box: Appling mastic to concrete slab joints (ongoing)
- Site wide asset labelling and various snagging works.
- Carried out NOWRI to permanent signage - various locations.
- GF: Waterproof painting behind flood barriers.
- Stair 1 and Stair 2: Snagging handrails
- Core drilling 50mm holes for the leaky feeder cable.
- Various blockwork repairs / snagging works.

Balfour

- HV Cables installed between L1-10 to Cobourg St basement
- Pilot Cables and Fibres Installed between B1-10 to Cobourg St basement
- Pre-commissioning of HV switchboard on going
- DC Rectifier cables terminated at both ends
- Continuation of lighting and small power circuit wiring
- Battery Charger 1 & 2 now energised and on soak
- Essential Services DB now energised.

Wingate

- Re-routing cables and maintenance works.

GKR

- Scaffolding Tracker works.

Clipfine

- Assisting contractors with movement of materials and floor protection
- General housekeeping.
- Various carpentry works
- Lifting operations via access hatches (carried out by Plant Movement)
- Hoarding adjustment.

Utilities project wide works

- MH1 at Hampstead Road/Cardington Street excavation
- Cumberland Market 300mm rider construction
- Completed TSS combined trench excavation; installed water DI1000/250PE and 80mm gas pipes
- 42’ water main connection at MF MH3 Area
- Ongoing UKPN trench excavation at Cobourg Street
- Works for commissioning of 4-point connection at Melton Street
- 42’ water main Pressure Tests and remedial works.

MF building

- Internal snagging and painting works.

MF Old School

- Continue window install, all floors
- TEP entrance area, begin groundworks
- Continue fire protection – soffit boarding and penetrations
- Continue roof plant install works
- Complete riser works, installing lintels and pad stones
- Internal M&E fit out
- Phase 1 TEP Rooms 1-7 handed over to Client (although additional works instructed for Client through HS2)

- Phase 2 Gym floor sanded and stained.

MWU Hampstead Road

- completed NTH MWU Park construction
- completed 7nr Trial Pits excavation at Cardington Street
- The Podium Piazza pavement remedial works.

Zone 5

- SCS compound for plant operation training area
- Storage area.

Two Towers

- Storage area.

Night shift activities at Euston St (internal - platforms/tunnels)

- Wingate – Continuation of CMS installation in BOH areas
- NG Baileys – Completed night work and are continuing on days
- Data Tech – Completed cable installation of 2x Fibre from SER to TSS CER
- Hitachi – Continue installation of radio cables and associated equipment from TSS to Station locations
- Brookvex – Completed installation of 2 x Cables from TSS to IMR on Northern line P1.

1.1.5 Twenty-Two (22) dust monitors are installed around these worksites, where works are underway. These sites returned a medium to high dust risk rating.

1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor in Figure 6. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors carry a higher level of uncertainty than reference monitors, and therefore cannot be strictly compared with Air Quality Standards for human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of the on-site mitigation.

1.1.7 The trigger level for PM_{10} concentrations of 190 µg/m^3, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites – (October 2018)*' has been applied.

1.1.8 Details of the trigger alerts investigations and remediations are presented in Appendix B, Table 2.

1.1.9 Data capture was below 90% for AQ003 due to an airflow error occurring on 12/12/2024. This issue was resolved during a site visit on 17/12/2024.

1.1.10 Diffusion tube monitoring of Nitrogen Dioxide (NO_2) is undertaken at sixty-four (64) locations around highways within the LBC as part of the management of air quality where significant effects may occur as a result of the scheme.

1.1.11 Diffusion tube monitoring results are as provided from the laboratory analysis, and therefore still require various analysis and adjustments to be undertaken. Final corrected results will be presented and described in the annual report. However, based on the results to date, no unexpected values were recorded during the monitoring period.

1.1.12 NO_2 monitoring locations and results are presented in Appendix C, Table 3, together with the 2024 running mean.

1.1.13 There were no (0) complaints received during the reporting period (December 2024).

Appendix A – Worksites and Monitoring Locations

Figure 1 to Figure 5: Worksites and monitoring locations within the LBC

HS2-000020BMZ

HS2-000020BNY

HS2-000020BP4

HS2-000020BMW

HS2-000020BQ2

Barnet London Boro

Camden London Boro

Brent London Boro

City of Westminster London Boro

City of Westminster London Boro

City of Westminster London Boro

Legend

- Diffusion Tube
- District Borough Unitary Boundaries

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Map Number

Map Name

Monitoring Locations In LBC (Sheet 1)

London Borough of Camden

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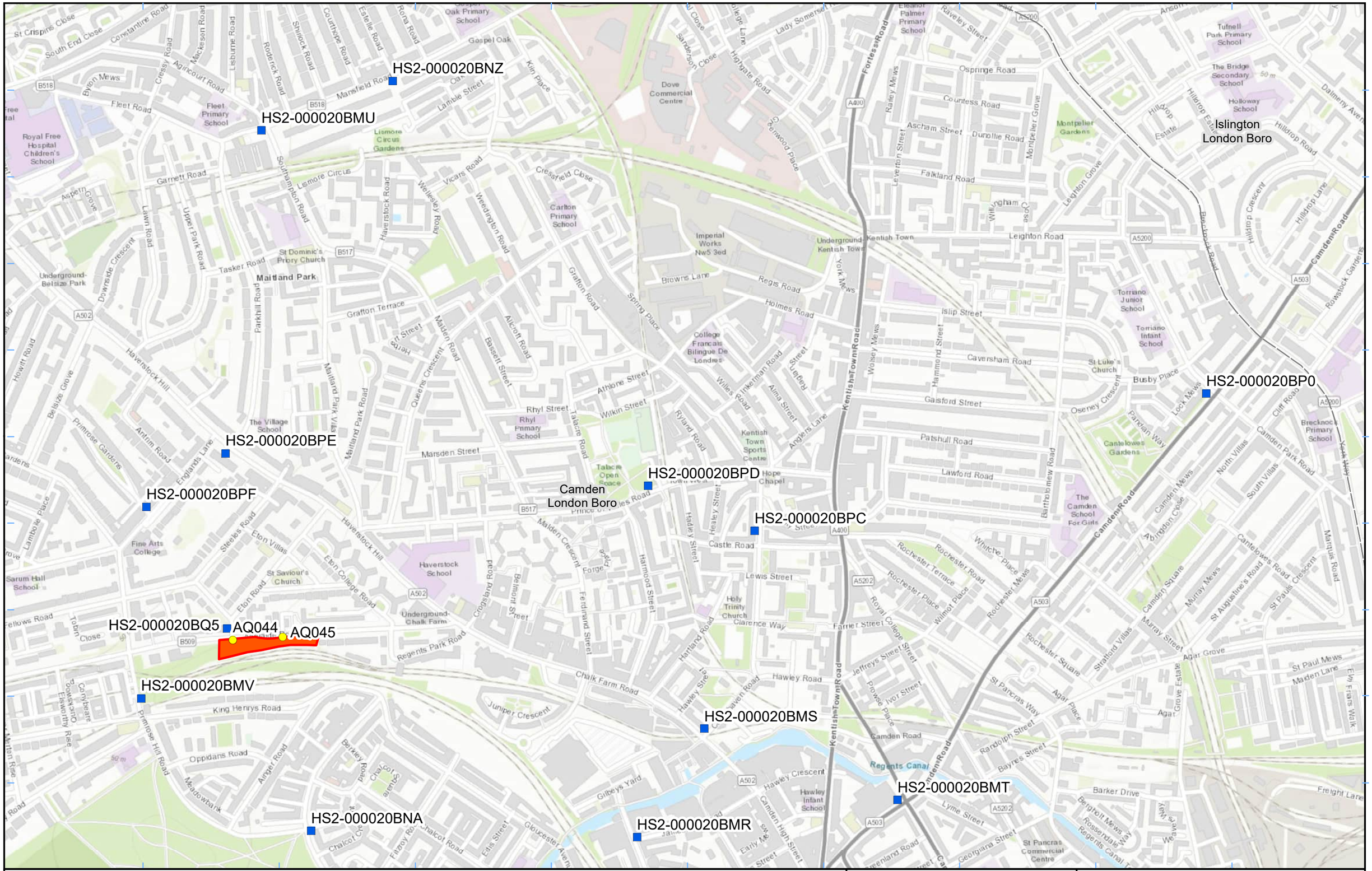
Doc Number:

Date: 25/10/22



Legend

- Diffusion Tube
- Worksite
- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

Map Name

Worksite and Monitoring Locations In LBC (Sheet 2)

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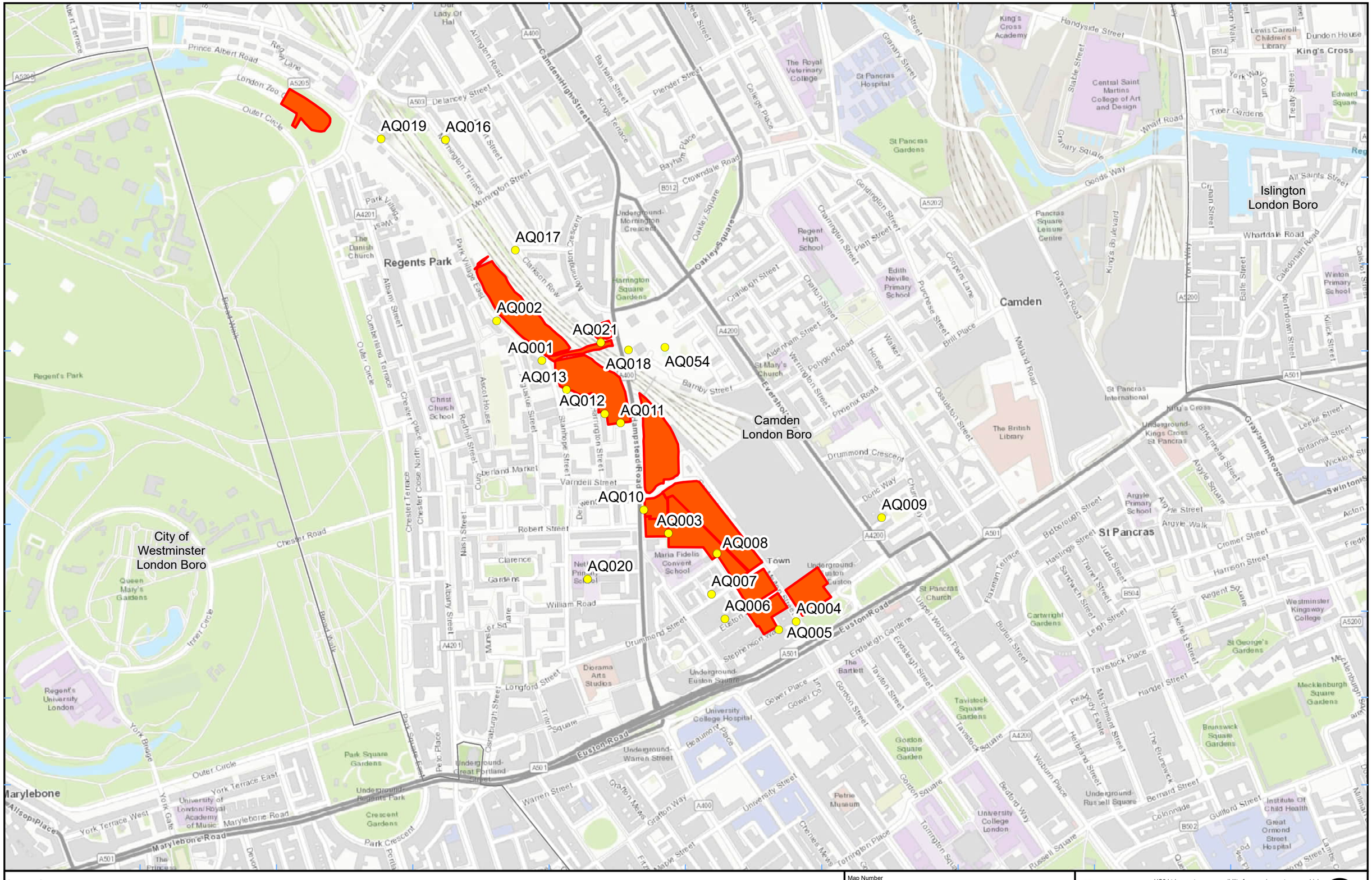

Legend

- Dust Monitor
- District Borough Unitary Boundaries
- Worksite

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Map Number

Map Name

Worksite & Monitoring Locations In LBC (Sheet 3)

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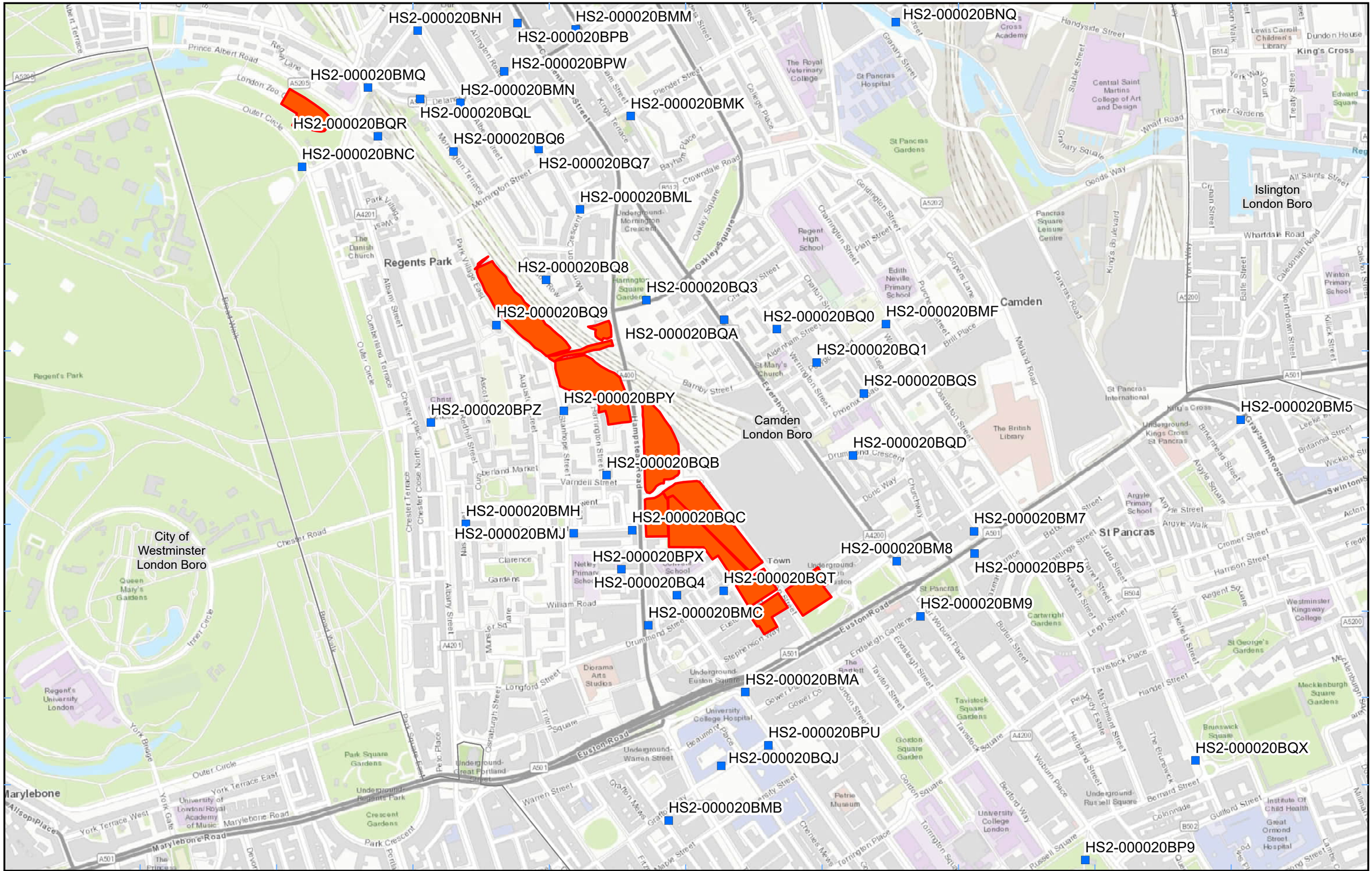

Legend

Diffusion Tube | District Borough Unitary Boundaries

Worksite

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Map Number

Map Name

Worksite & Monitoring Locations In LBC (Sheet 4)

London Borough of Camden

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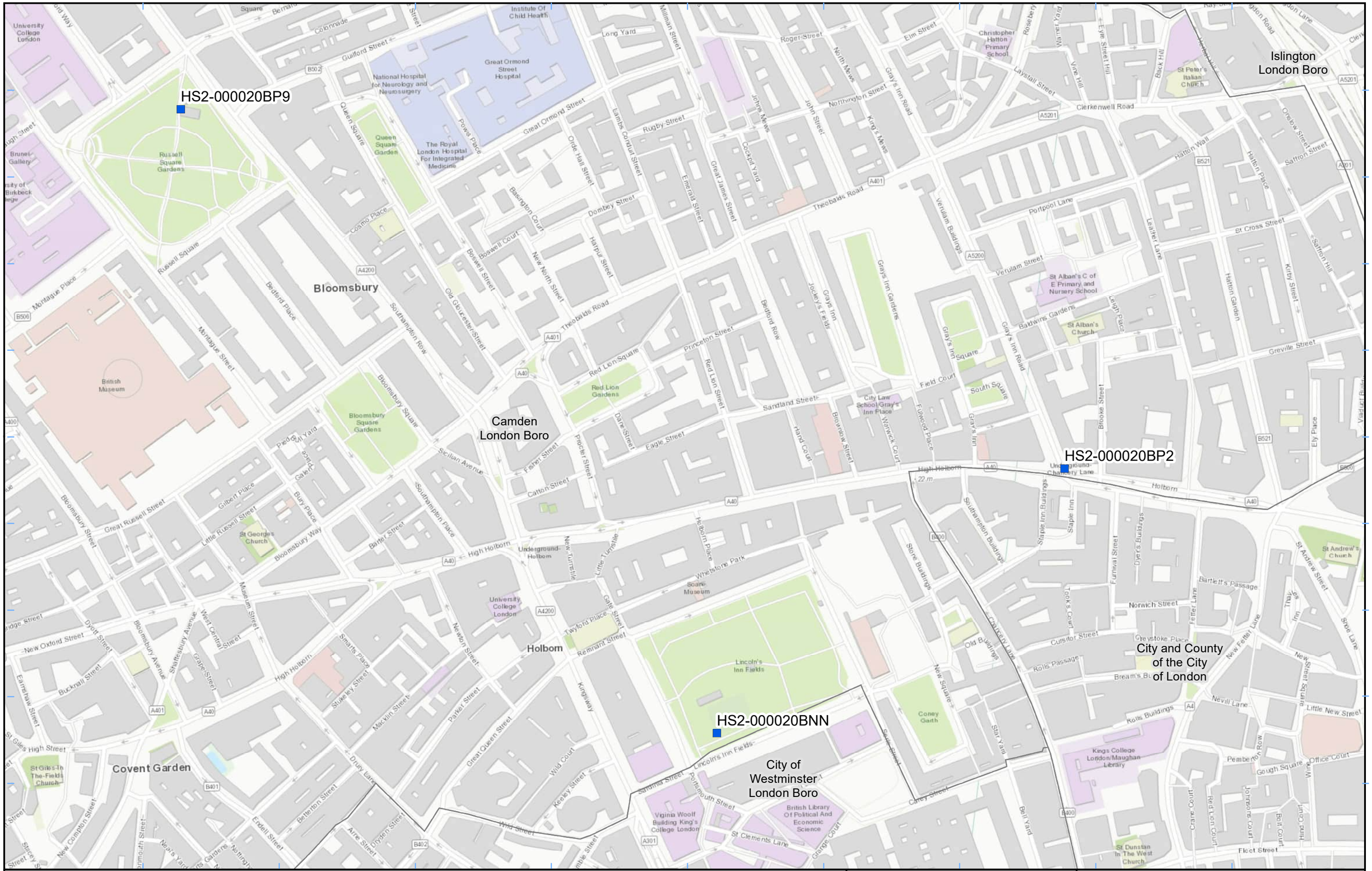

Legend

- Diffusion Tube
- District Borough Unitary Boundaries

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Map Number

Map Name

Worksite and Monitoring Locations In LBC (Sheet 5)

London Borough of Camden

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Doc Number:

Date: 25/10/22

Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and Results

Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM_{10} concentration ($\mu g/m^3$)	Minimum 1-hour PM_{10} concentration ($\mu g/m^3$)	Maximum 1-hour PM_{10} concentration ($\mu g/m^3$)	Number of 1- hour periods exceeding trigger level of 190 $\mu g/m^3$	Data capture (%)
AQ001	529016, 183049	Junction of Park Village East, Stanhope Street and Granby Terrace	M	Yes	N	8.2	0.8	37.4	0	100.0
AQ002	528924, 183130	Park Village East	M	Yes	N	7.6	0.7	35.3	0	100.0
AQ003	529273, 182698	St James' Gardens	M	Yes	N/A	8.5	0.7	413.0	1	85.2
AQ004	529533, 182519	Melton Street	H	Yes	N/A	8.4	0.9	36.0	0	100.0
AQ005	529498, 182502	Stephenson Way	H	Yes	N/A	12.7	0.9	51.1	0	100.0
AQ006	529388, 182524	Euston Street	H	Yes	N/A	7.4	0.6	34.2	0	100.0
AQ007	529361, 182574	Drummond Street	H	Yes	N/A	19.1	1.0	127.7	0	100.0
AQ008	529372, 182657	Cobourg Street	H	Yes	N/A	4.6	0.3	54.5	0	98.5
AQ009	529707, 182730	Eversholt Street	H	Yes	N/A	31.2	2.0	166.4	0	100.0
AQ010	529223, 182746	Hampstead Road South	M	Yes	N/A	11.2	0.8	163.7	0	100.0
AQ011	529176, 182922	Hampstead Road	M	Yes	N	5.8	0.1	34.0	0	99.5

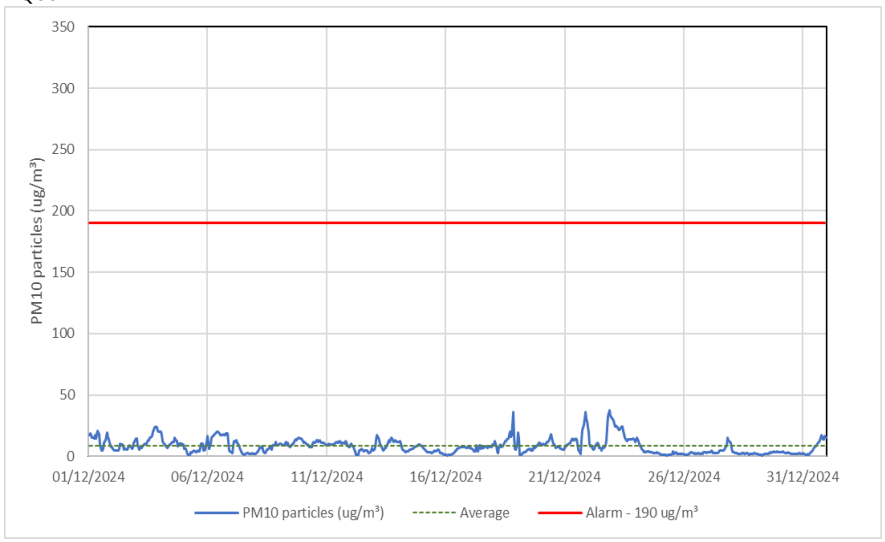
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM_{10} concentration ($\mu g/m^3$)	Minimum 1-hour PM_{10} concentration ($\mu g/m^3$)	Maximum 1-hour PM_{10} concentration ($\mu g/m^3$)	Number of 1- hour periods exceeding trigger level of 190 $\mu g/m^3$	Data capture (%)
AQ012	529144, 182941	Rear of Coniston House	M	Yes	N	9.3	0.7	45.1	0	100.0
AQ013	529066, 182990	Regents Park Estate	M	Yes	N	7.0	0.5	33.0	0	100.0
AQ016	528820, 183498	Mornington Terrace North	M	Yes	N	5.7	0.4	26.8	0	100.0
AQ017	528962, 183274	Mornington Terrace South	M	Yes	N	2.9	0.1	15.0	0	100.0
AQ018	529192, 183071	Hampstead Road North	M	Yes	N	7.0	0.5	30.7	0	100.0
AQ019	528689, 183500	Park Village East (North)	M	Yes	N	6.1	0.5	44.1	0	100.0
AQ020	529109, 182605	Netley School	n/a	Yes	N/A	7.0	0.5	31.1	0	100.0
AQ021	529136, 183086	Site compound at the Junction of Hampstead Road & Granby Terrace Bridge	M	Yes	N	8.7	0.6	37.8	0	100.0
AQ044	527725, 184369	Adelaide Road 1	M	Yes	N	9.9	1.0	44.0	0	100.0
AQ045	527826, 184375	Adelaide Road 2	M	Yes	N	7.9	0.6	35.3	0	100.0
AQ054	529266, 183076	Ampthill Estate, Hampstead Road	M	Yes	N	12.2	1.0	47.0	0.0	100.0

Table 2: Summary of exceedances during period (December 2024)

Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ003	24/12/2024 11:01 – 12:00; 413.0 µg/m^3	There were no HS2 works or vehicle/ machine movements related to HS2 occurring in the vicinity of this unit during the period where the trigger level was exceeded. No further exceedances at this monitor were recorded during this monitoring period.	MDJV will continue to ensure all the activities being undertaken have appropriate mitigation measures applied (in line with the CoCP). Any further exceedances at this monitor will continue to be investigated to confirm whether the exceedance is caused by HS2 activities.

Figure 6: Construction dust 1-hour mean indicative PM_{10} concentration for all dust monitors

AQ001



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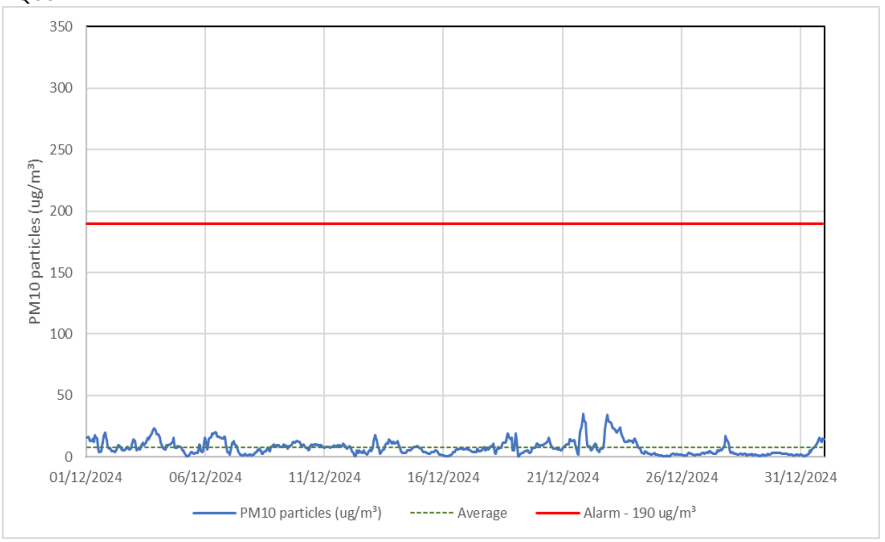

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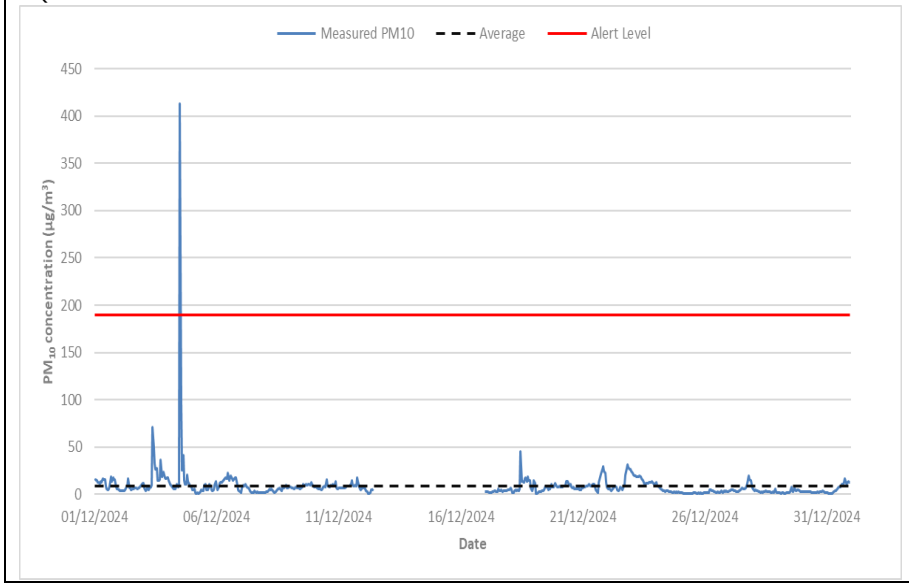

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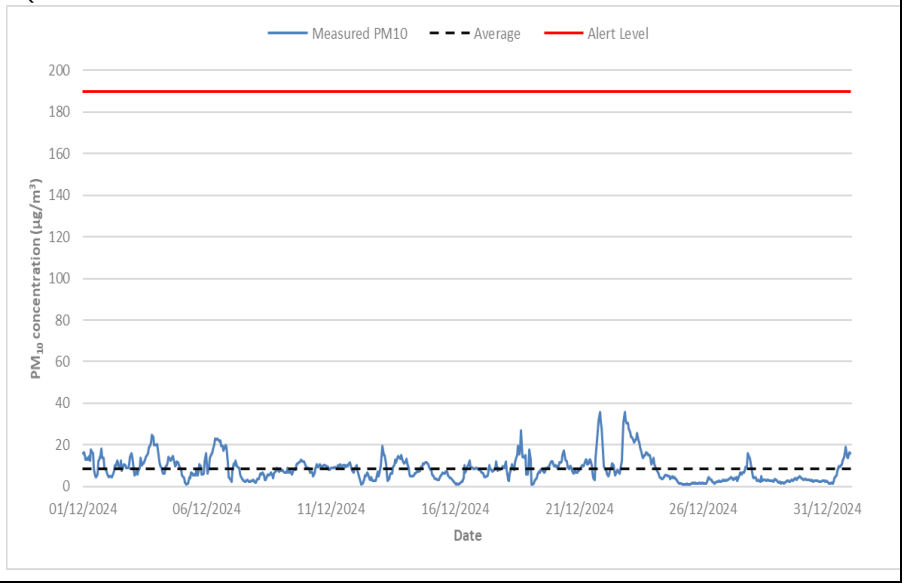

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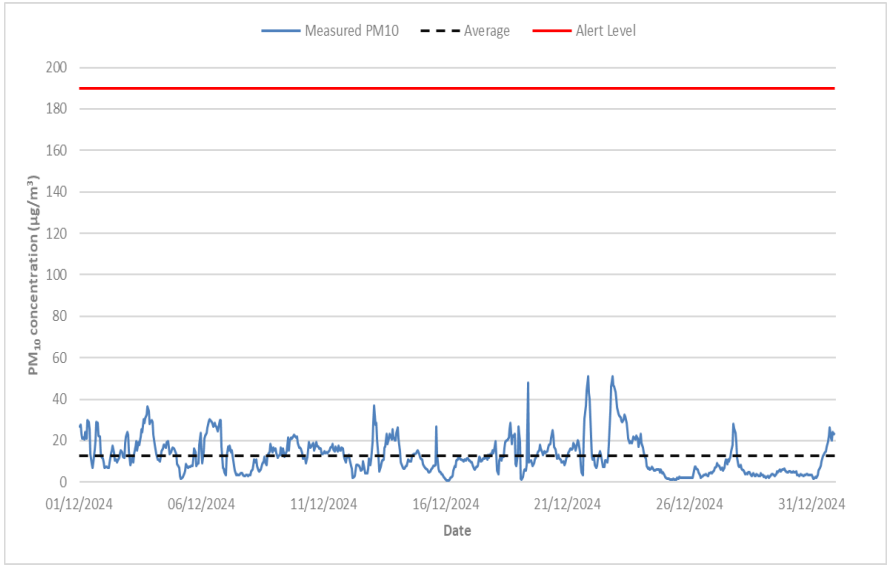

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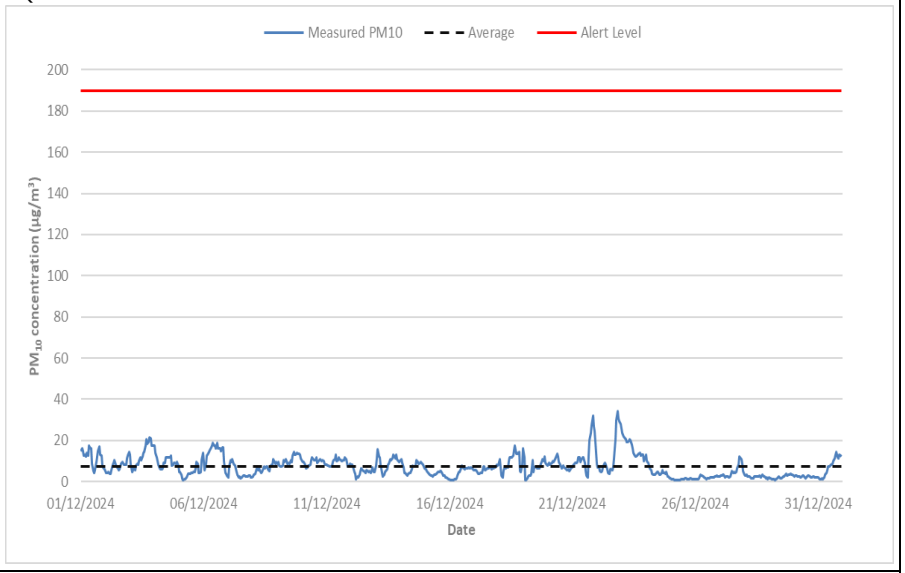

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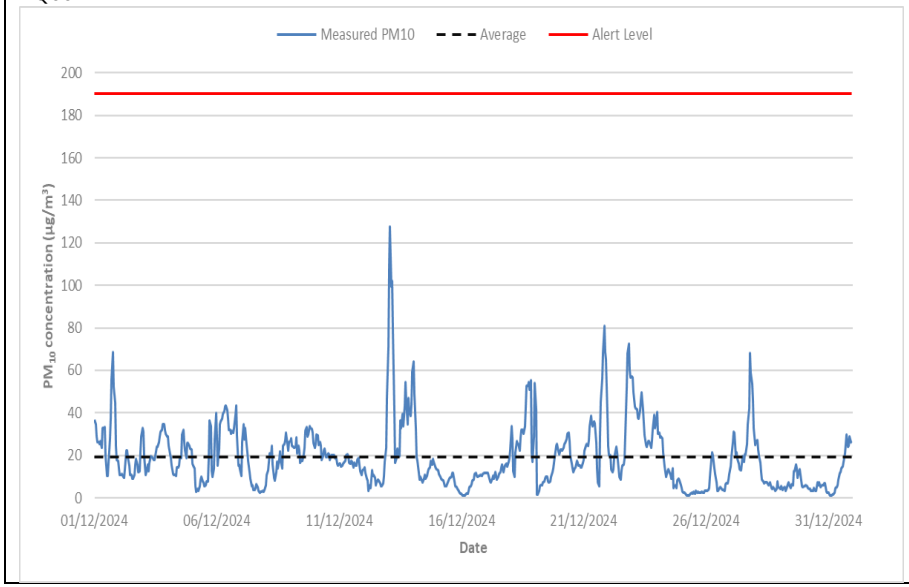

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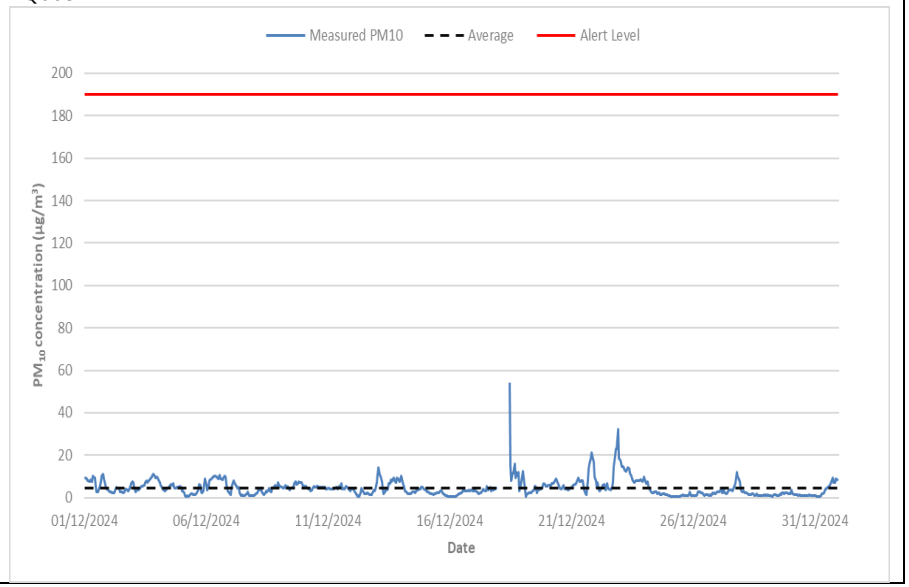

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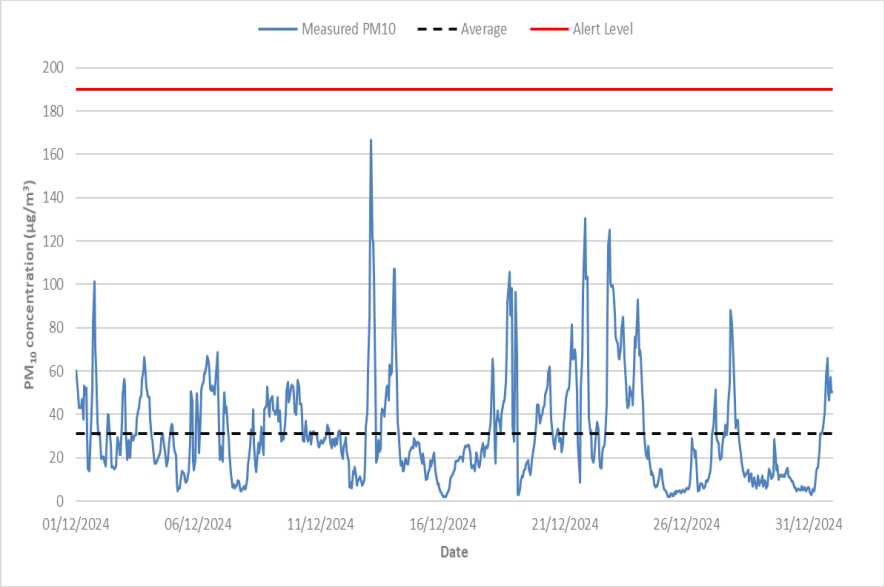

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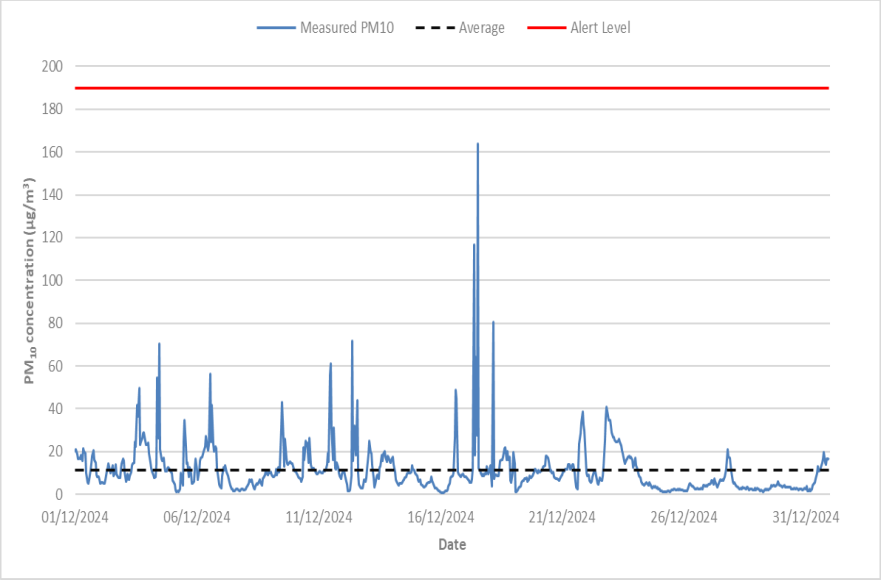

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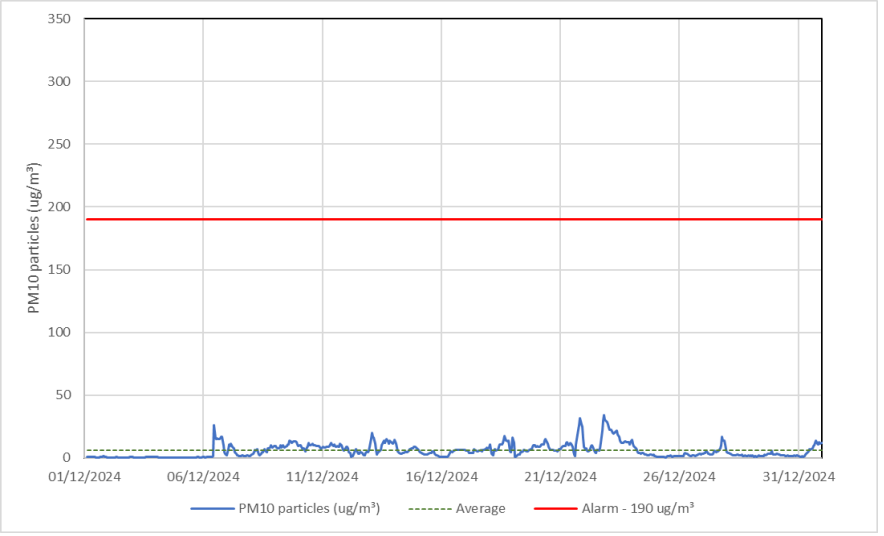

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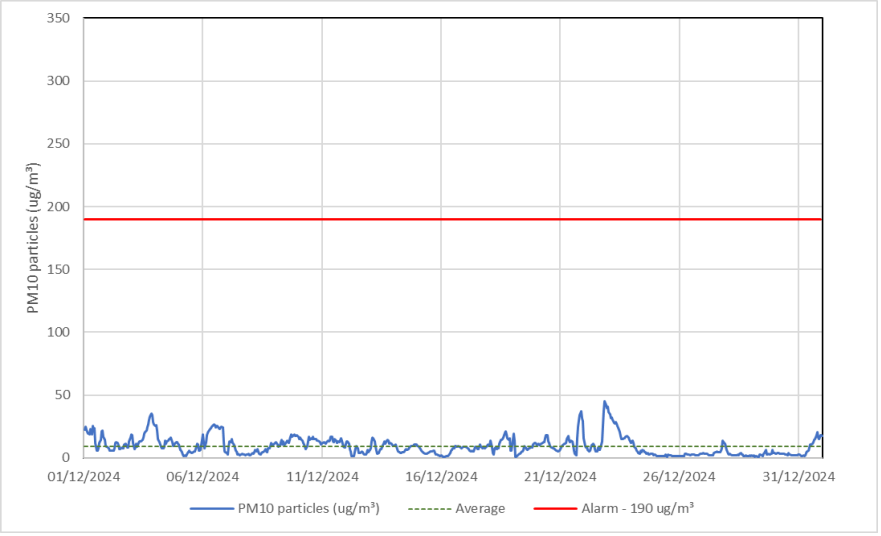

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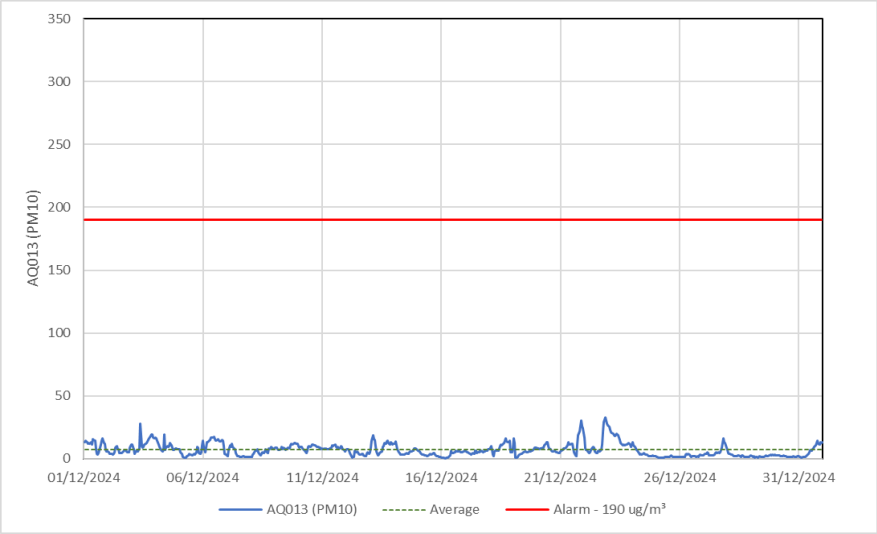

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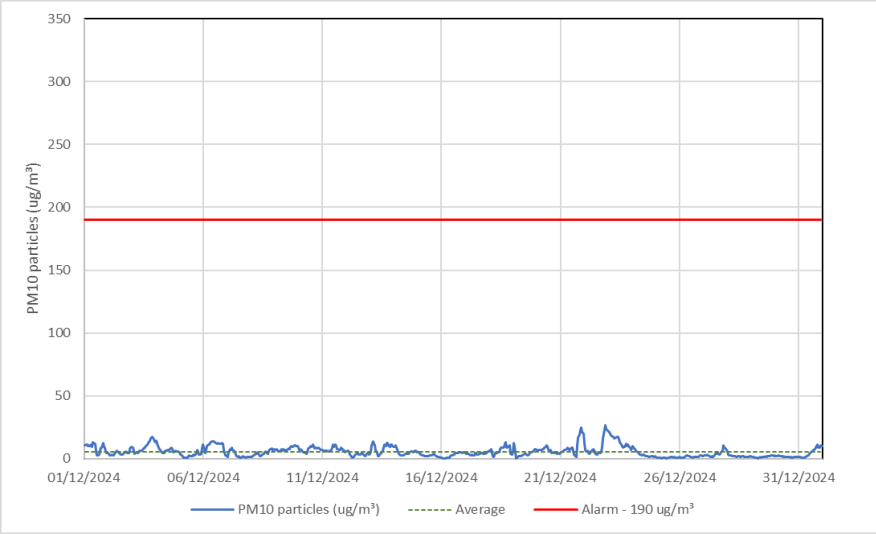

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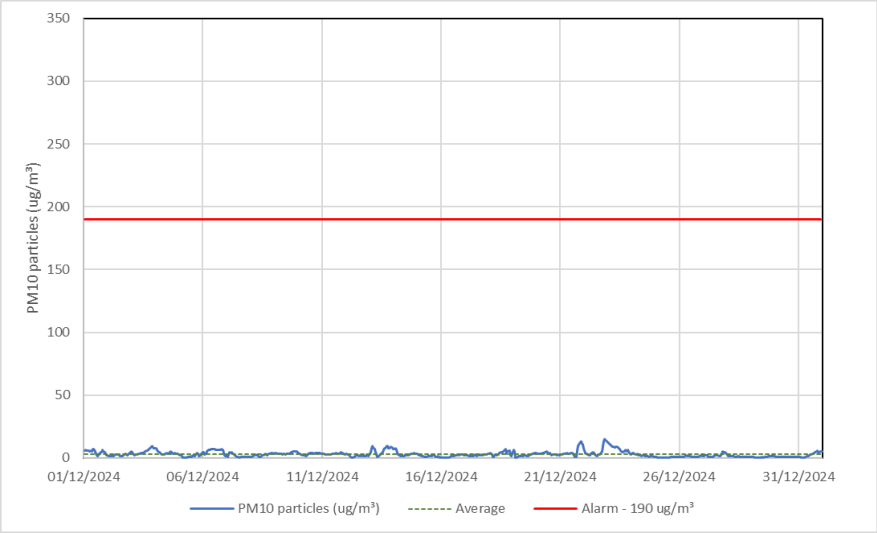

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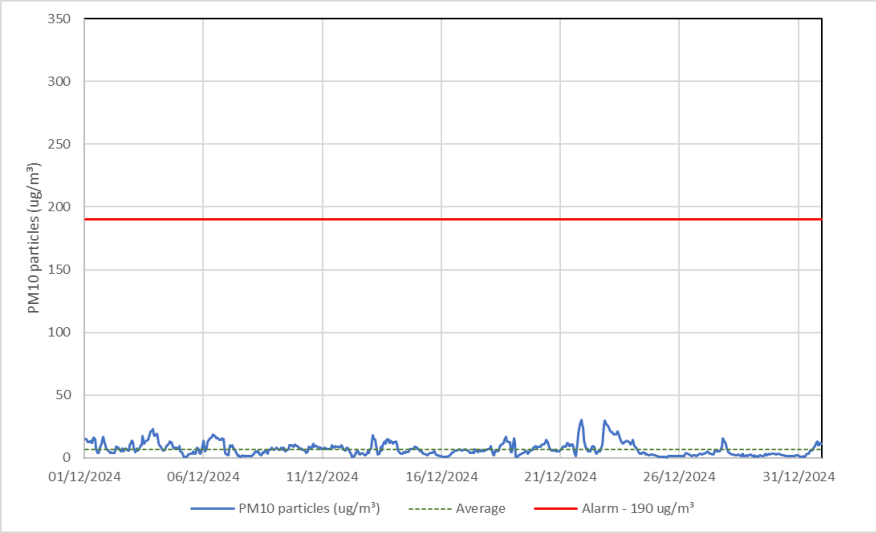

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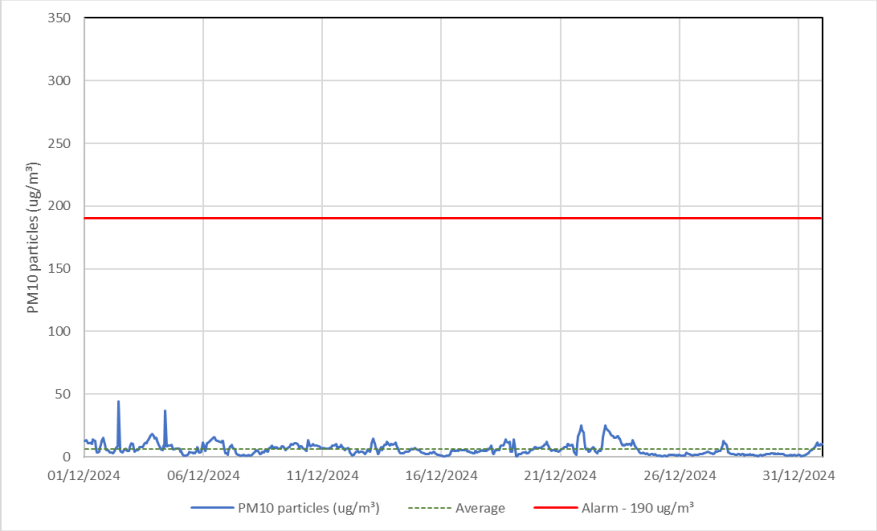

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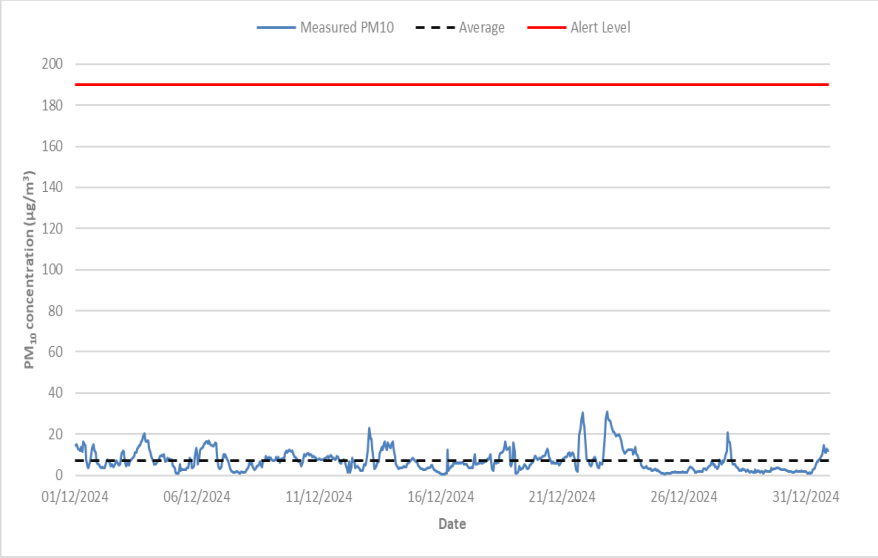

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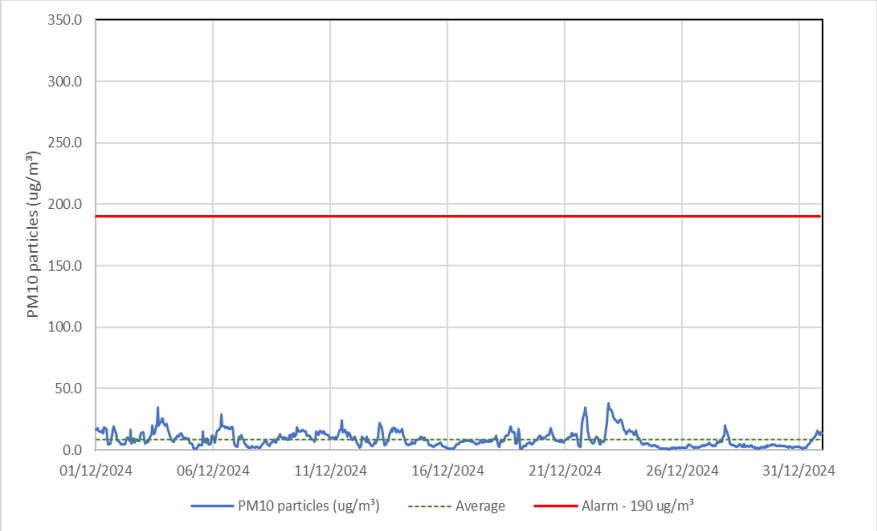

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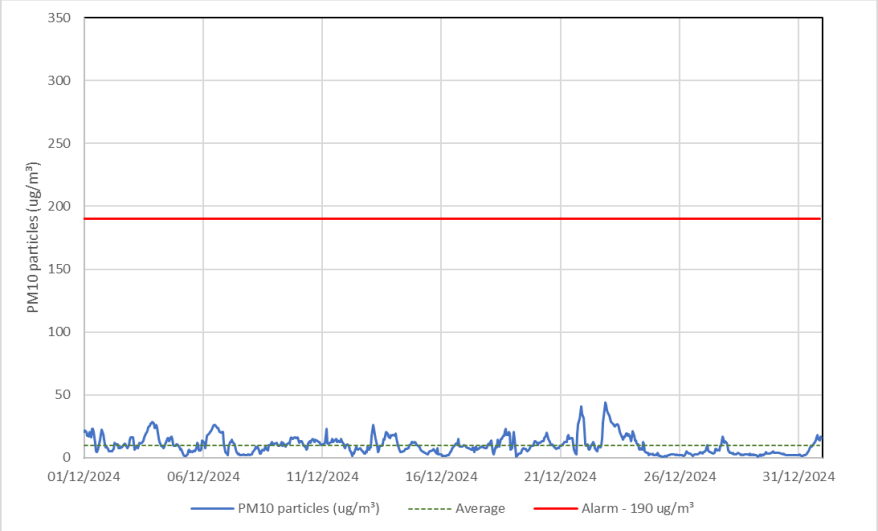

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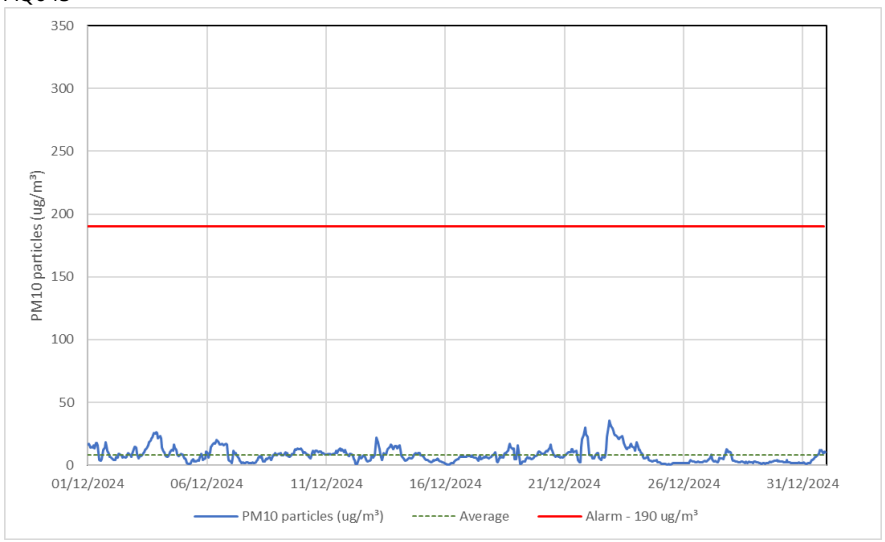
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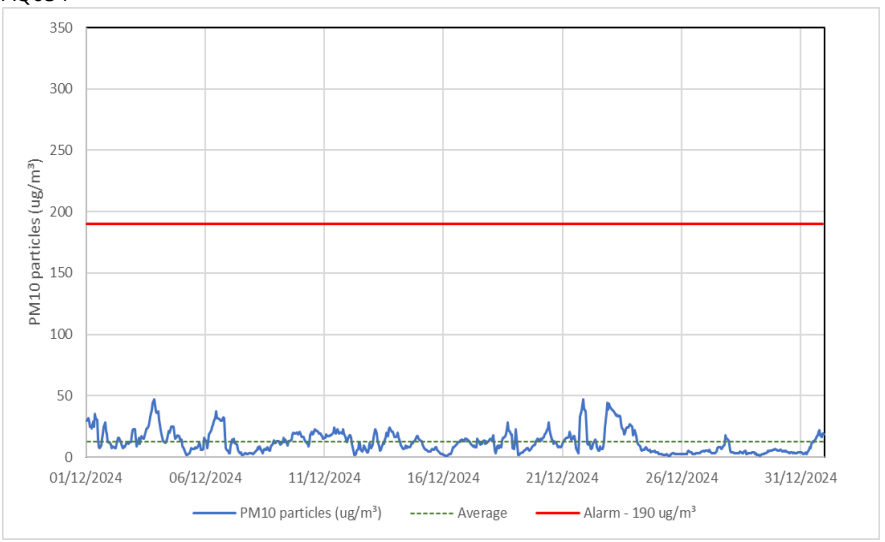
300
250
200
150
100
50
0
PM10 particles (ug/m³)
01/12/2024
06/12/2024
11/12/2024
16/12/2024
21/12/2024
26/12/2024
31/12/2024
PM10 particles (ug/m³)
Average
Alarm - 190 ug/m³

AQ054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PM10 particles (ug/m³)
01/12/2024
06/12/2024
11/12/2024
16/12/2024
21/12/2024
26/12/2024
31/12/2024
PM10 particles (ug/m³)
Average
Alarm - 190 ug/m³

Appendix C – Air Quality Monitoring Results

Table 3: NO_2 monitoring locations around highways, NO_2 concentrations and monthly monitoring results with running mean for 2024 (µg/m^3)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean[1][2]
HS2-000020BM5	Junction of St Chad's Street and Grays Inn Road	530436, 182929	44	43	Tube Missing	Tube Missing	26	42	29	32	38	Tube Missing	45		37
HS2-000020BM7	Chalton Street	529894, 182702	Tube Missing	45	42	31	38	Tube Missing	15	35	34	36	Tube Missing		35
HS2-000020BM8	Junction of Euston Square and Grafton Place	529737, 182641	Tube Missing	39	35	31	46	43	44	46	45	Tube Missing	32		40
HS2-000020BM9	Junction of Endsleigh Gardens and Upper Woburn Place	529785, 182529	44	Tube Missing	Tube Missing	Tube Missing	44	33	32	36	40	44	45		40
HS2-000020BMA	Junction of Euston Road and Gower Street	529429, 182375	56	50	37	Tube Missing	Tube Missing	41	33	37	32	44	61		43
HS2-000020BMB	Whitfield Street	529273, 182114	39	35	23	23	30	21	20	24	27	35	26		28
HS2-000020BMC	Hampstead Road	529232, 182511	55	62	57	48	54	47	48	Tube Missing	37	61	57		53
HS2-000020BMF	Junction of Polygon Road and Ossulston Street	529715, 183123	32	27	29	Tube Missing	24	17	Tube Missing	18	23	30	35		26

[1] *Note: to aid interpretation and conform with best practice, the monthly measurements in this table are reported rounded to the nearest whole number. The annual mean presented here is calculated based on laboratory data to 4 significant figures, rounded to a whole number, and therefore may differ slightly to a mean derived from averaging the rounded monthly measurements in the table.*

[2] *The annual mean for diffusion tubes presented in the table above still require various analysis and adjustments to be undertaken before comparison to the Air Quality Objectives. The final corrected annual mean will be presented in the HS2 Annual Air Quality Report.*

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean[12]
HS2-000020BMH	Nash Street	528861, 182717	34	27	18	18	Tube Missing	20	20	21	20	32	36		25
HS2-000020BMJ	Junction on Robert Street and Stanhope Street	529080, 182698	31	31	27	19	25	20	21	21	26	32	36		26
HS2-000020BMK	Junction of Plender Street and Bayham Street	529196, 183546	45	42	37	32	38	33	32	32	34	39	44		37
HS2-000020BML	Junction of Arlington Road and Mornington Crescent	529093, 183356	36	30	25	20	23	18	17	18	25	Tube Missing	23		23
HS2-000020BMM	Junction of Bayham Street and Pratt Street	529084, 183722	39	Tube Missing	Tube Missing	Tube Missing	41	42	40	39	34	47	49		41
HS2-000020BMN	Junction of Delancey Street and Albert Street	528850, 183573	34	32	29	23	Tube Missing	23	21	23	29	30	32		27
HS2-000020BMQ	Junction of Parkway and Delancey Street	528662, 183604	38	36	39	20	33	29	Tube Missing	Tube Missing	34	39	43		35
HS2-000020BMR	Junction of Oval Road and Jamestown Road	528548, 183967	30	28	21	22	23	19	17	19	21	30	34		24
HS2-000020BMS	Junction of Chalk Farm Road and Castlehaven Road	528685, 184188	43	41	Tube Missing	Tube Missing	40	35	31	32	36	41	44		38
HS2-000020BMT	Junction of Camden Road and Camden Street	529079, 184043	46	41	37	31	37	29	28	30	36	40	50		37
HS2-000020BMU	Junction of Southampton Road and Fleet Road	527783, 185407	40	30	34	27	32	31	28	29	34	36	42		33

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean[12]
HS2-000020BMV	Primrose Hill Road	527538, 184250	Tube Missing	31	28	21	24	19	18	19	23	12	Tube Missing		22
HS2-000020BMW	Junction of Finchley Road and Hilgrove Road	526619, 184081	43	45	39	28	41	36	34	25	40	41	32		37
HS2-000020BMZ	Junction of Finchley Road and Hendon Way	525102, 186042	54	54	53	42	57	50	45	51	53	52	59		52
HS2-000020BNA	Junction of Regent's Park Road and Rothwell Street	527884, 183980	29	29	22	18	20	19	17	17	18	32	15		21
HS2-000020BNC	Junction of Outer Circle and Gloucester Gate	528528, 183443	29	22	19	14	20	15	12	16	21	23	30		20
HS2-000020BNH	Junction of Parkway and Albert Street	528763, 183720	33	30	24	23	27	24	23	24	26	34	30		27
HS2-000020BNN	Lincoln's Inn Fields	530744, 181308	23	33	30	21	24	19	21	22	21	Tube Missing	Tube Missing		24
HS2-000020BNQ	Camley Street	529735, 183737	38	36	21	23	Tube Missing	23	21	23	15	Tube Missing	Tube Missing		25
HS2-000020BNY	Junction of Mill Lane and Hillfield Road	524839, 185136	42	39	29	29	Tube Missing	28	22	25	33	27	39		31
HS2-000020BNZ	Mansfield Road	528050, 185508	35	31	23	23	Tube Missing	24	23	29	28	29	34		28
HS2-000020BP0	Junction of Camden Road and Torriano Avenue	529708, 184871	45	51	40	35	40	35	37	35	37	35	48		40
HS2-000020BP2	Junction of Grays Inn Road and Holborn	531149, 181616	36	35	32	25	36	26	21	Tube Missing	27	34	21		29
HS2-000020BPB	Camden High Street	528966, 183735	59	52	48	Tube Missing	58	57	50	45	38	52	54		51

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean[12]
HS2-000020BPC	Castlehaven Road	528788, 184591	29	27	23	Tube Missing	22	21	13	18	22	25	28		23
HS2-000020BPD	Prince of Wales Road	528571, 184683	26	26	21	16	20	19	14	16	18	29	33		22
HS2-000020BPE	Haverstock Hill	527710, 184749	40	39	29	23	28	24	23	27	26	32	35		30
HS2-000020BPF	Junction of Primrose Gardens and England's Lane	527549, 184640	41	37	21	22	27	23	19	26	30	31	35		28
HS2-000020BPU	Junction of Gower Street and Grafton Way	529476, 182267	43	42	38	Tube Missing	35	28	24	22	19	39	43		33
HS2-000020BPW	Junction of Delancey Street and Arlington Road	528939, 183637	27	28	30	23	29	26	19	25	Tube Missing	39	41		29
HS2-000020BPX	Netley Street	529177, 182625	36	30	31	22	20	19	13	21	27	35	14		24
HS2-000020BPY	Stanhope Street	529060, 182947	Tube Missing	26	22	14	20	14	22	15	19	28	29		21
HS2-000020BPZ	Albany Street	528790, 182923	34	25	26	18	26	24	16	23	35	30	29		26
HS2-000020BQ0	Werrington Street	529493, 183113	35	26	27	18	22	17	15	19	21	31	33		24
HS2-000020BQ1	Polygon Road	529574, 183045	27	33	Tube Missing	Tube Missing	Tube Missing	Tube Missing	24	19	24	34	34		28
HS2-000020BQ2	Alexandra Place	526320, 183980	29	29	Tube Missing	15	20	17	24	17	18	29	Tube Missing		22
HS2-000020BQ3	Harrington Square	529228, 183172	43	37	34	28	32	24	20	26	29	33	24		30
HS2-000020BQ4	Junction of North Gower Street and Starcross Street	529290, 182572	33	33	28	21	17	19	17	22	24	33	33		26
HS2-000020BQ5	Adelaide Road	527713, 184392	32	34	25	19	25	22	14	20	23	30	Tube Missing		24

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean[12]
HS2-000020BQ6	Mornington Terrace	528836, 183474	30	26	23	8	21	19	15	16	20	27	Tube Missing		20
HS2-000020BQ7	Arlington Road	529009, 183479	27	26	26	14	20	16	16	17	22	26	33		22
HS2-000020BQ8	Clarkson Row	529024, 183213	32	26	28	Tube Missing	20	16	15	20	21	24	32		24
HS2-000020BQ9	Park Village East	528923, 183121	30	24	23	15	19	18	16	18	22	30	21		21
HS2-000020BQA	Eversholt Street	529386, 183132	43	28	33	26	Tube Missing	Tube Missing	14	35	42	44	38		34
HS2-000020BQB	Junction of Harrington Street and Varndell Street	529147, 182816	32	28	24	17	21	16	21	16	20	25	27		22
HS2-000020BQC	Junction of Robert Street and Hampstead Road	529199, 182704	40	35	30	23	32	20	22	23	28	Tube Missing	43		29
HS2-000020BQD	Drummond Crescent	529648, 182856	39	36	38	22	28	21	18	24	23	35	20		28
HS2-000020BQJ	Grafton Way	529380, 182225	40	47	32	30	24	32	Tube Missing	34	38	42	Tube Missing		35
HS2-000020BQL	Delancey Street	528768, 183581	36	29	35	Tube Missing	32	29	27	9	30	37	35		30
HS2-000020BQR	Lamp post on Park Village East	528682, 183505	33	22	23	17	Tube Missing	Tube Missing	16	16	14	30	30		22
HS2-000020BQS	Opposite Maria fidelis school on Phoenix Road	529670, 182982	34	32	26	26	21	17	19	19	23	Tube Missing	50		27
HS2-000020BQT	Drummond Street	529385, 182581	27	33	Tube Missing	Tube Missing	22	22	36	20	23	32	22		26
HS2-000020BQX	Lamp post on Brunswick Square	530344, 182236	36	39	31	31	28	23	21	26	28	33	38		30

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean[12]
HS2-000020BP4	Triplicate site on Finchley Road next to Swiss Cottage kerbside automatic monitoring station	526633, 184392	49	40	41	37	45	38	36	36	41	44	45		41
HS2-000020BP5	Triplicate site next to the Euston Road roadside automatic monitoring stations	529895, 182657	57	Tube Missing	Tube Missing	Tube Missing	58	52	51	55	53	53	55		54
HS2-000020BP9	Triplicate site in Russell Square next to Bloomsbury urban background automatic monitoring station	530120, 182034	34	30	Tube Missing	24	26	19	18	Tube Missing	24	33	30		26