

## Air Quality and Dust Monitoring Monthly Report – July 2021 London Borough of Camden



## Department for Transport

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High Speed Two (HS2) Limited,  
Two Snowhill  
Snow Hill Queensway  
Birmingham B4 6GA

Telephone: 08081 434 434

General email enquiries: [HS2enquiries@hs2.org.uk](mailto:HS2enquiries@hs2.org.uk)

Website: [www.gov.uk/hs2](http://www.gov.uk/hs2)

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 June and July 2021 respectively.
- 1.1.2 Figure 1 to Figure 4 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](http://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 phase of works commenced within the LBC during December 2017 and is expected to be completed by December 2021. The next concurrent phase of construction works commenced in November 2019 and is expected to be completed by 2025. The current and planned worksites, include:

## **Skanska Costain Strabag Joint Venture (SCSjv)**

- Adelaide Road Vent Shaft –Concreting and utilities works, vegetation clearance and groundworks;
- Vehicle Holding Area - works are now complete;
- Site office and welfare ground works, concrete slab construction and services by Granby Terrace Bridge;
- Euston Scissor Cut – groundworks, piling operations and materials management;
- Euston Throat Retained Cut groundworks, piling operations, utilities diversion works and materials management; and
- Hampstead Road Bridge – mobilisation , site setup and utilities work.

## **Costain Skanska Joint Venture (CSjv)**

- Compound and Power Signal Box, demolition works completed with ground slab and foundation removal continuing. Crushing of demolition arisings;
- Archaeological dig at St James' Gardens, works complete, handover of site to MDjv;
- Euston Street Walkden and Wolfson House demolition works complete, handover of site to MDjv;
- Utilities reinstatement works (pavers) at Gower Place;
- Utility reinstatement works at Stephenson Way and Regnart Buildings;
- Ground excavation works on Varndell Street; and
- Harrington Street and Cartmel drainage works.

## **Mace Dragados Joint Venture (MDjv)**

### *ITR:*

- Site security and maintenance.

### *TSS:*

- Completion of site set up in yard including muck bays and all services; and
- Completion of grouting of Caisson rings, SCL works commenced.

### *Tower Demolition:*

- Hard Demolition ground floor slab; and
- Hoardings refurbishment.

### *Maria Site (NTH)/ Maria Fidelis:*

- Concrete Pour Wall;
- Extension access to Maria Fidelis;
- Removal of brick wall in Maria Fidelis to allow installation of Sheet Piles;
- Hoardings refurbishment in Cardington Street and Hampstead Road; and
- Gate relocation beside Exmouth Arms Pub.

### *Ground Investigation:*

- Completion of Doric Way boreholes drilling;
- Deep datum installation in the NTH-EN main site;
- Drilling of borehole in location 9 of NTH-EN main site started; and Trial holes.

### *Utilities:*

- Trial holes in various locations.

1.1.5 Twenty-one (21) dust monitors are installed around worksites, where demolition, groundworks and materials management are underway. These sites returned a medium or high dust risk rating.

1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 2, together with line charts of monthly data from each dust monitor in Figure 4. 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<sub>10</sub> concentrations of 190 µg/m<sup>3</sup>, 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.

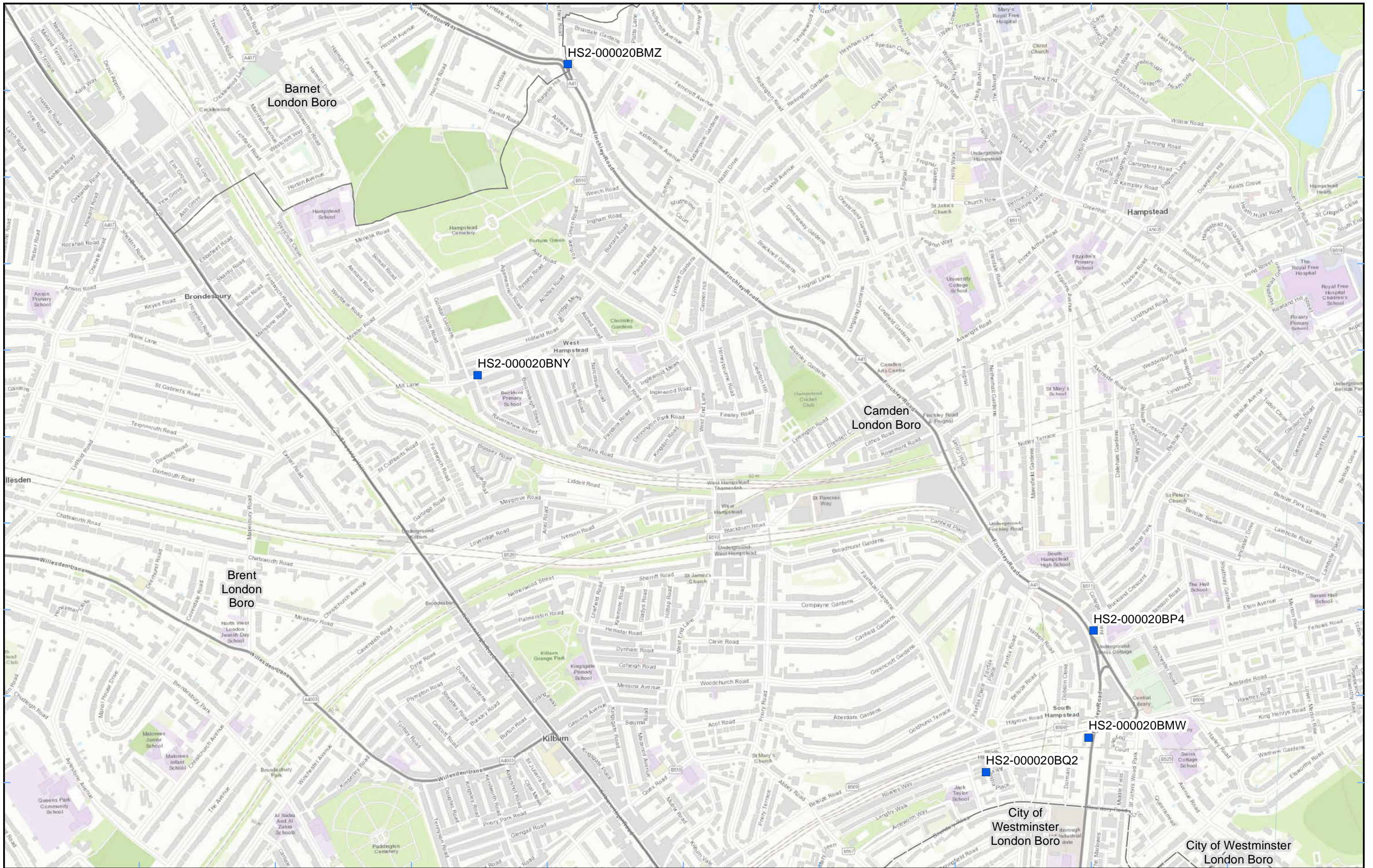
- 1.1.8 There were five (5) dust trigger alerts recorded during the monitoring period (July 2021). Exceedances are presented in Appendix B, Table 3. All other results were in line with the expected ranges.
- 1.1.9 Data capture for monitors AQ008 and AQ011 was below 90% for the month of July 2021 due to a fault with these monitors over the course of the month. The fault with AQ008 was fixed on 12<sup>th</sup> August 2021. Monitors AQ014 and AQ015 were decommissioned following completion of construction works at the Vehicle Holding Area in May/June 2021.
- 1.1.10 Diffusion tube monitoring of Nitrogen Dioxide (NO<sub>2</sub>) 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 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<sub>2</sub> monitoring locations and results are presented in Appendix C, Table 4, together with the 2021 running mean.
- 1.1.13 Table 1 provides a summary of the complaint information related to dust or air quality received during the reporting period, together with the findings of any related investigations.

Table 1: Summary of complaints received during July 2021

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-21-42239-C	n/a	Ongoing dust and noise issues.	Confirmed mitigation measures used both for noise and dampening activities for dust.
HS2-21-42314-C		Noise disturbance and dust exacerbated by hot weather.	Information provided on noise and dust mitigations and apology given.
HS2-21-42377-C		Noise, dust and light from construction affecting life quality.	Outlined mitigation measures for noise, and the need for safety lighting. Invited to identify particular lights of concern for further consideration. Highlighted alternative bus options due to suspended stops. Virtual 121 offered with engagement team if required. Apology given.

# Appendix A – Worksites and Monitoring Locations

Figure 1 to Figure 4: Worksites and monitoring locations within the LBC



**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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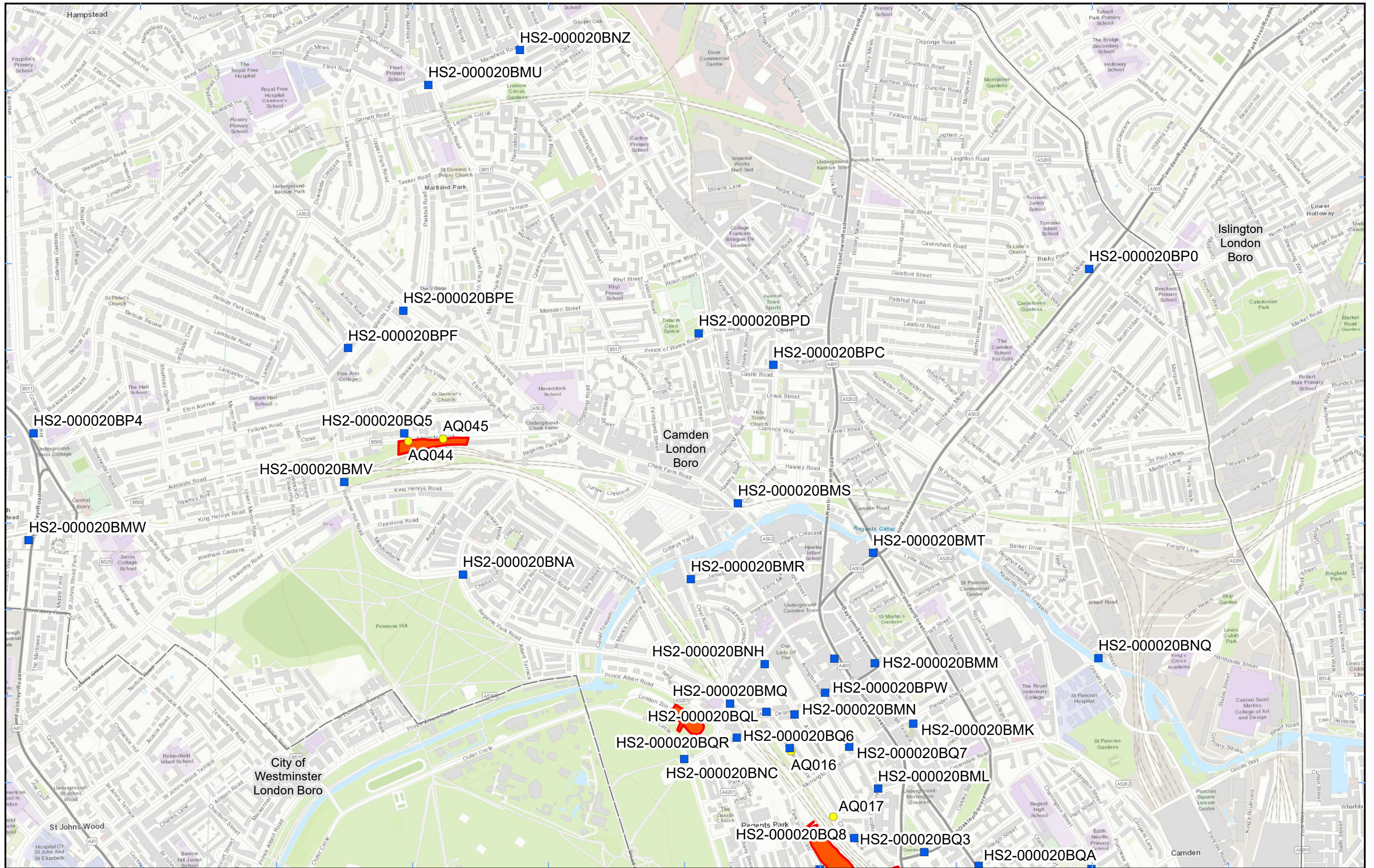
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**Legend**

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

Map Number

Map Name  
**Worksite and Monitoring Locations  
In LBC (Sheet 2)**

London Borough of Camden

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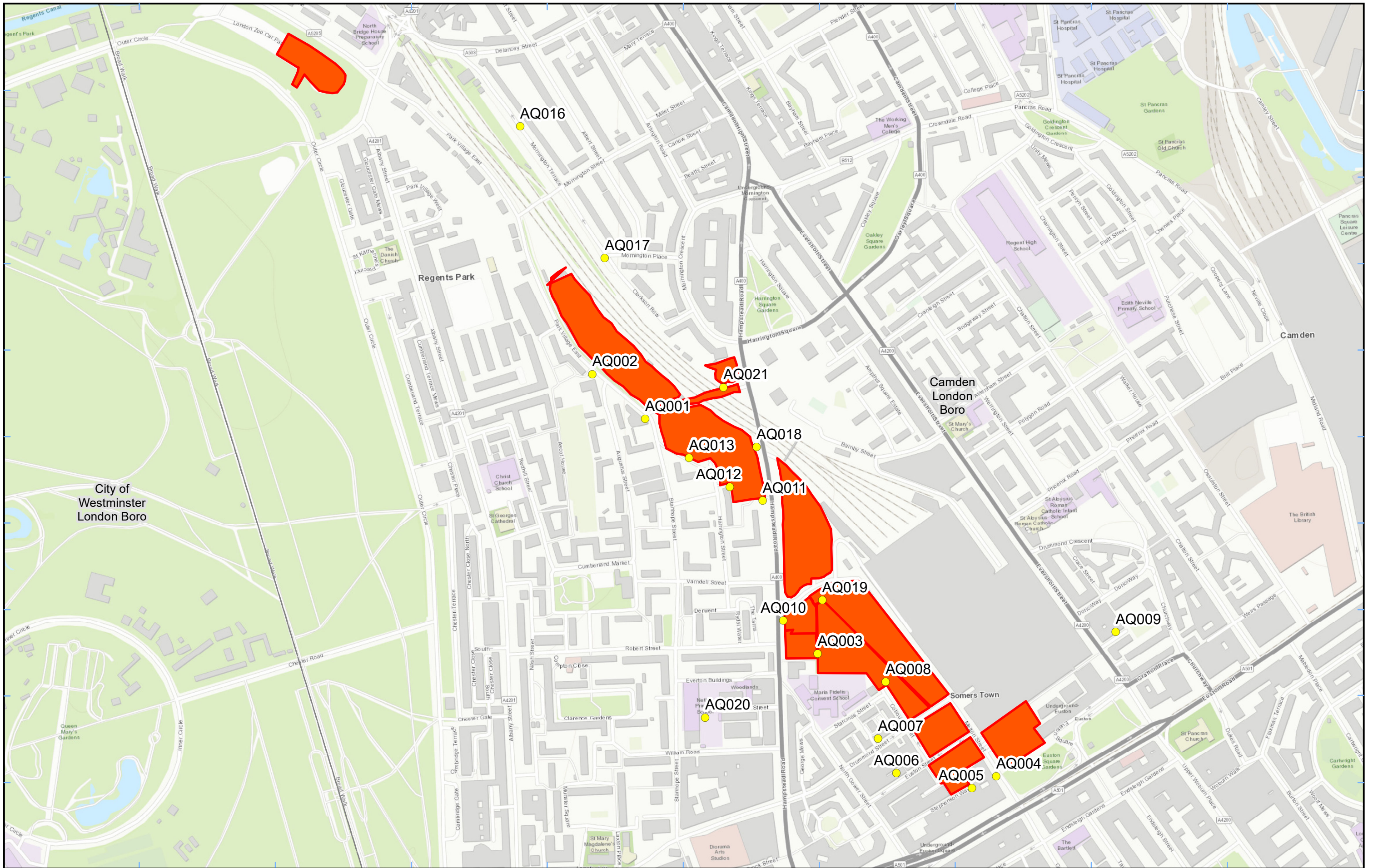
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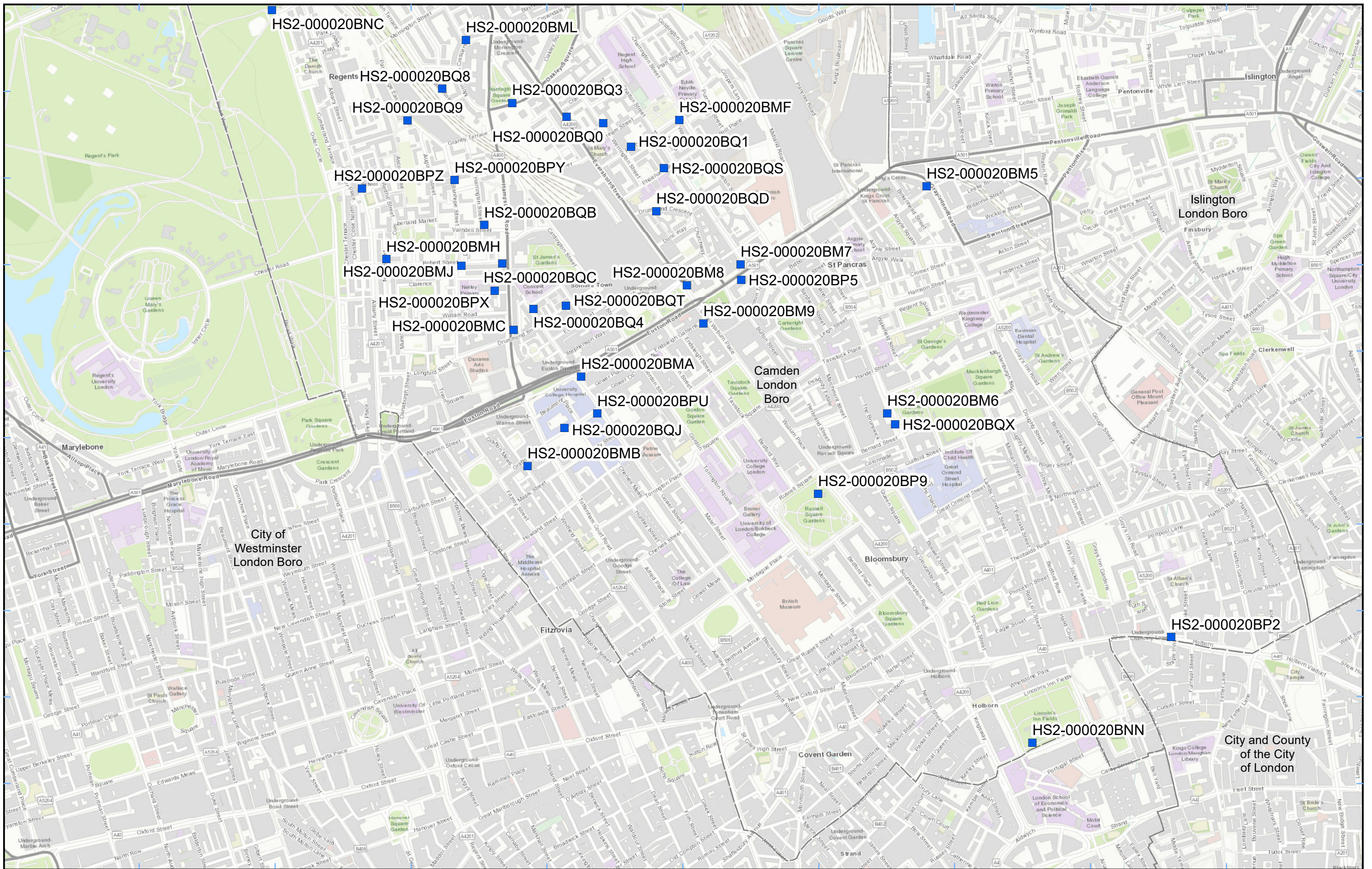
**Legend**  
 ● Dust Monitor □ District Borough Unitary Boundaries  
 ■ Worksite

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Map Number  
 Worksite and Monitoring Locations  
 In LBC (Sheet 3)  
 London Borough of Camden

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Scale at A3: 1:5,000  
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**Legend**  
 ■ Diffusion Tube  
 □ District Borough Unitary Boundaries

Map Number  
 Map Name  
**DT Monitoring Locations In LBC  
 (Sheet 4)**  
 London Borough of Camden

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## Appendix B – Dust Monitoring Results

Table 2: Dust monitoring locations and June 2021 Results

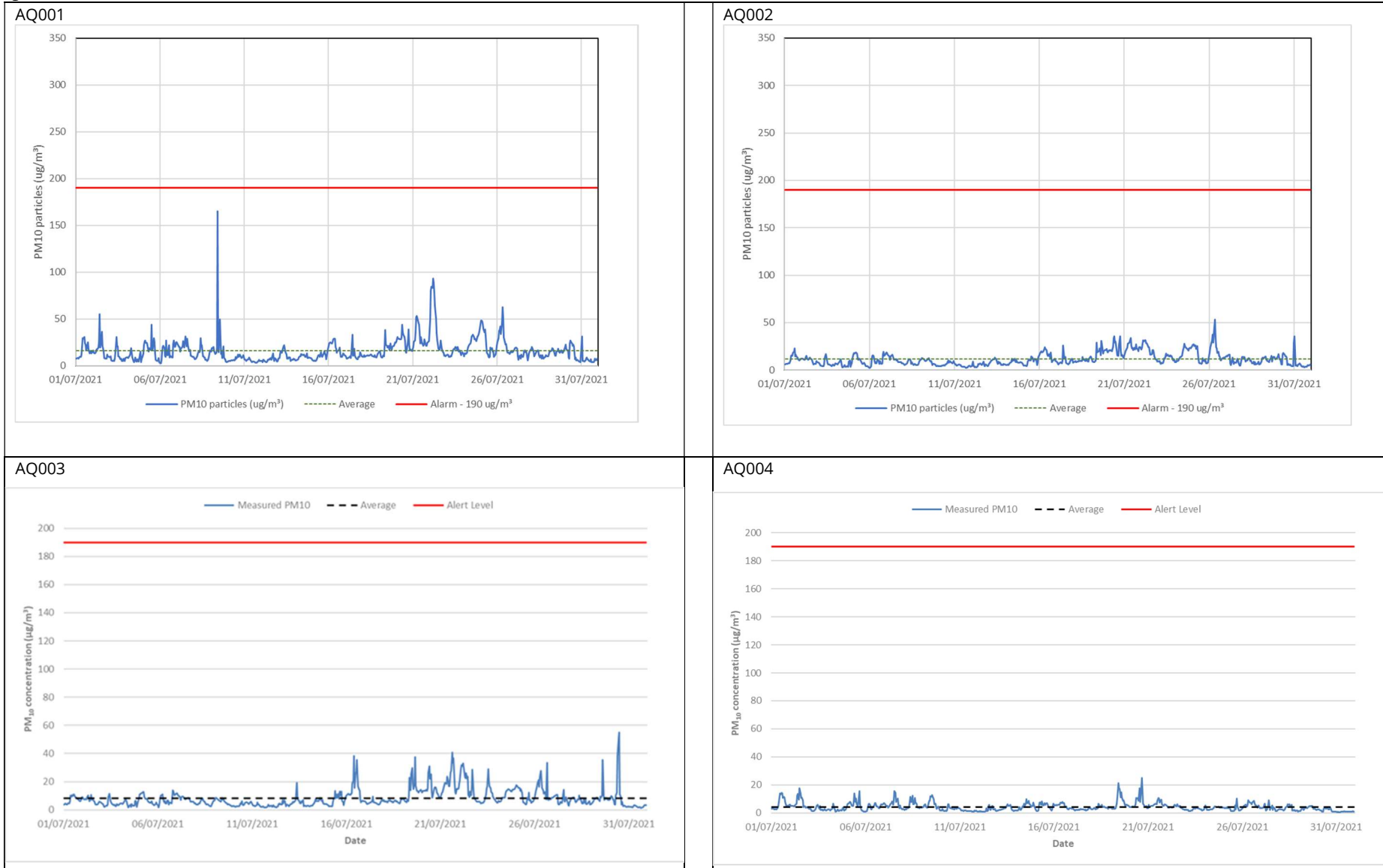
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Maximum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Number of 1- hour periods exceeding trigger level of 190 µg/m <sup>3</sup>	Data capture (%)
AQ001	529022, 183040	Junction of Park Village East, Stanhope Street and Granby Terrace	M	Yes	N	15.9	2.8	164.8	0	99.9
AQ002	528945, 183105	Park Village East	M	Yes	N	11.6	2.3	53.0	0	99.9
AQ003	529273, 182698	St James' Gardens	M	Yes	N	8.3	1.3	55.0	0	100.0
AQ004	529533, 182519	Melton Street	H	Yes	N	4.3	0.4	25.1	0	100.0
AQ005	529498, 182502	Stephenson Way	H	Yes	N	17.0	2.4	251.5	1	100.0
AQ006	529388, 182524	Euston Street	H	Yes	N	11.7	1.9	74.8	0	100.0
AQ007	529361, 182574	Drummond Street	H	Yes	N	9.0	1.8	36.2	0	100.0
AQ008	529372, 182657	Cobourg Street	H	Yes	N	3.5	0.6	47.8	0	35.5
AQ009	529707, 182730	Eversholt Street	H	Yes	N	10.8	2.1	51.4	0	100.0
AQ010	529223, 182746	Hampstead Road South	M	Yes	N	11.8	2.3	38.8	0	100.0
AQ011	529193, 182921	Hampstead Road	M	No	N	10.4	1.7	91.4	0	38.6

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 <sub>10</sub> concentration (µg/m <sup>3</sup> )	Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Maximum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Number of 1- hour periods exceeding trigger level of 190 µg/m <sup>3</sup>	Data capture (%)
AQ012	529145, 182941	Rear of Coniston House	M	Yes	N	13.2	2.3	165.2	0	95.0
AQ013	529086, 182983	Regents Park Estate	M	Yes	N	15.6	2.7	70.6	0	96.6
AQ016	528840, 183466	Mornington Terrace North	M	Yes	N	11.7	2.5	60.6	0	99.7
AQ017	528963, 183274	Mornington Terrace South	M	Yes	N	8.8	1.7	75.6	0	99.9
AQ018	529184, 182999	Hampstead Road North	M	Yes	N	9.8	1.8	41.3	0	99.9
AQ019	529280, 182776	Park Village East (North)	M	Yes	N	12.5	2.1	282.9	4	99.9
AQ020	529109, 182605	Netley School	n/a	Yes	N	11.0	2.1	50.4	0	100.0
AQ021	529136, 183086	Site compound at the Junction of Hampstead Road & Granby Terrace Bridge.	M	Yes	N	10.9	2.3	106.1	0	99.9
AQ044	527725, 184369	Adelaide Road Vent Shaft (west)	M	Yes	N	11.9	1.9	113.9	0	96.4
AQ045	527826, 184375	Adelaide Road Vent Shaft (east)	M	Yes	N	10.3	2.0	73.5	0	96.5

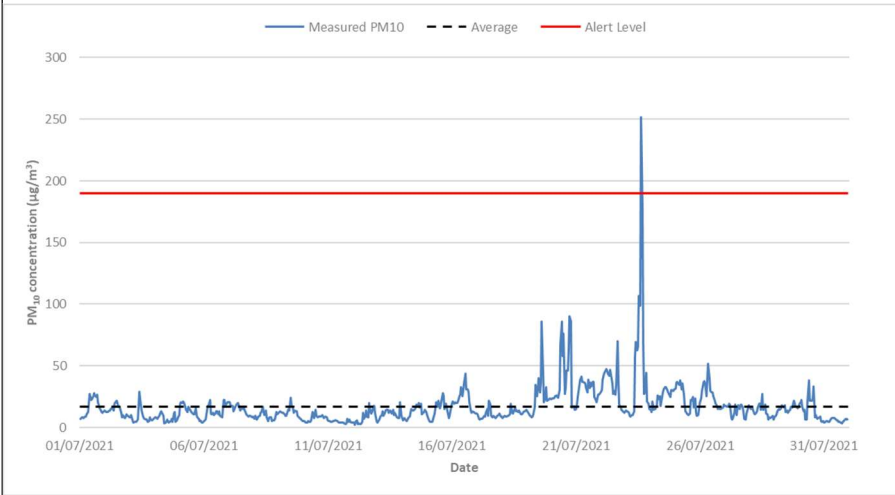
Table 3: Summary of exceedances of trigger level in July 2021

Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
AQ019 Park Village East (North)	01/07/2021 13:01 - 14:00; 270.5 µg/m <sup>3</sup>	At the time of the Trigger alert Modus Utilities had been undertaking duct installation & trial hole excavations to establish the cable route. Dust suppression, in the form of hand pumped water spray, was in use both for floor saws and when the hydraulic breaker was attached to the 360 excavator was in use.	The works are located directly below the monitor. Dust suppression will continue to be applied in line with the CoCP, as well as reminders sent to the site teams to remind them on the importance of effective dust management.
	03/07/2021 09:01 - 10:00; 282.9 µg/m <sup>3</sup>	No works being undertaken on Saturday 03/07/2021 by Modus Utilities in this location.	Site was left in clean and tidy when work stopped on Friday 02 July 2021. Good housekeeping practices, to avoid suspension of dust, will continue to be implemented.
	09/07/2021 09:01-10:00 230.4 µg/m <sup>3</sup> 12:01-13:00 202.6 µg/m <sup>3</sup>	Similar to the previous occasion, at the time of the trigger alert Modus Utilities were undertaking works beneath the monitor. Dust suppression, in the form of hand pumped water spray, was in use both for floor saws and when the hydraulic breaker was attached to the 360 excavator was in use.	Dust suppression will continue to be applied in line with the CoCP for the remainder of the works. Works complete at that location beneath the monitor
AQ005 Stephenson Way	23/07/2021 14:01 - 15:00; 251.5 µg/m <sup>3</sup>	On consultation with the construction team, it has been confirmed that no works were carried out by MDJV in the Wolfson site.  The investigation has also included locations outside the site boundaries and it has been noticed that another contractor was carrying out road pavement works on Stephenson Way.	MDJV will continue to control res-suspension of dust damping down the site while no construction activities are carried out.  MDJV will continue to ensure all the activities being undertaken on site have appropriate mitigation measures applied (in line with the CoCP).

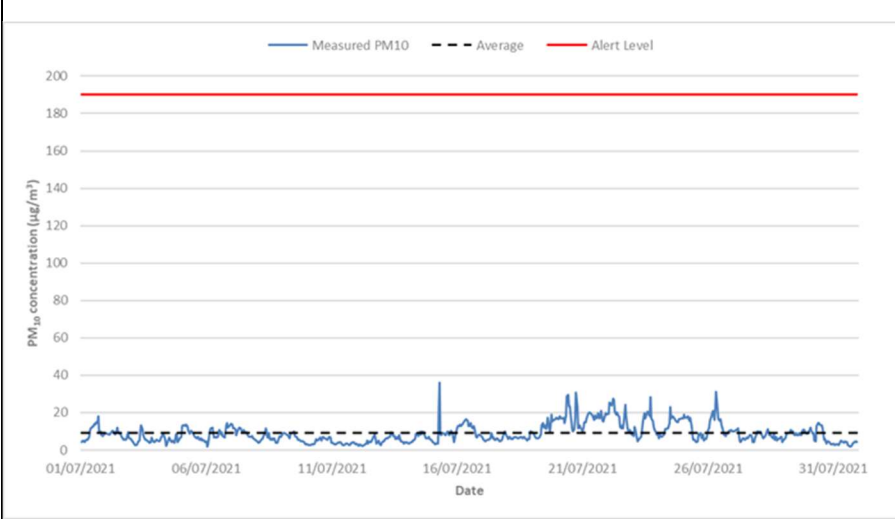
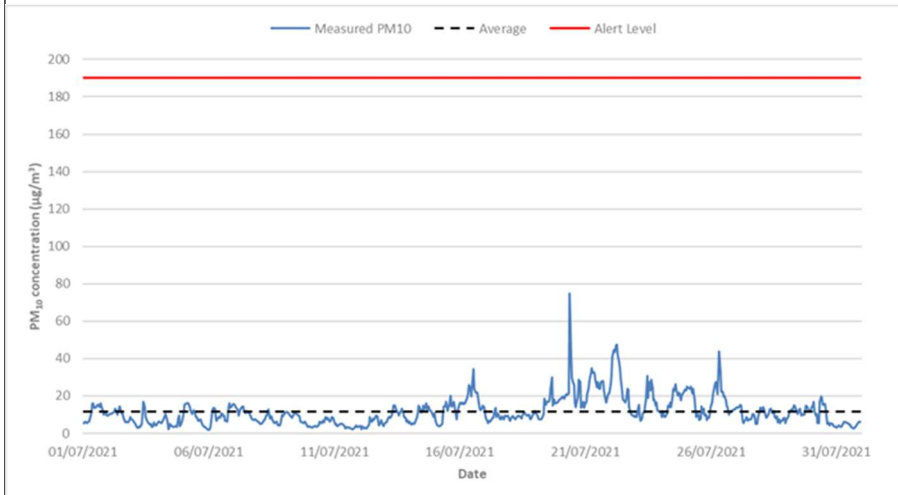
Figure 4: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for dust monitors



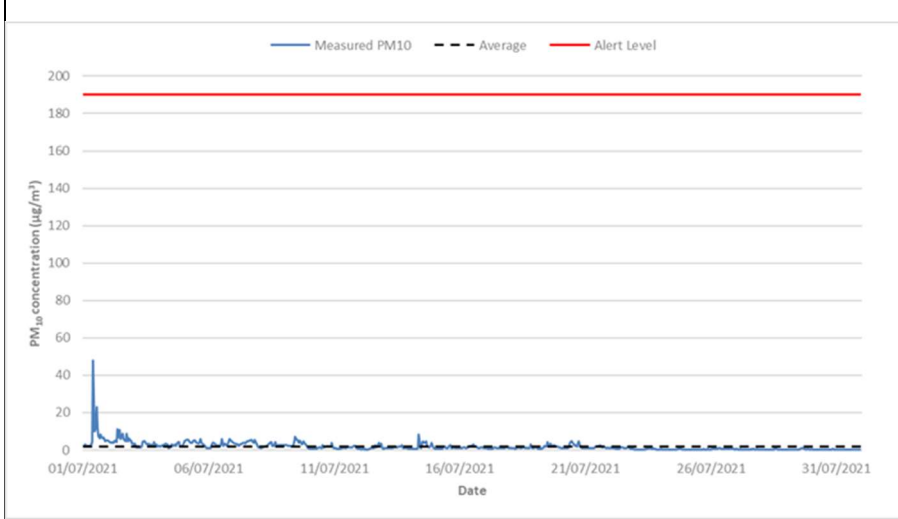
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AQ006

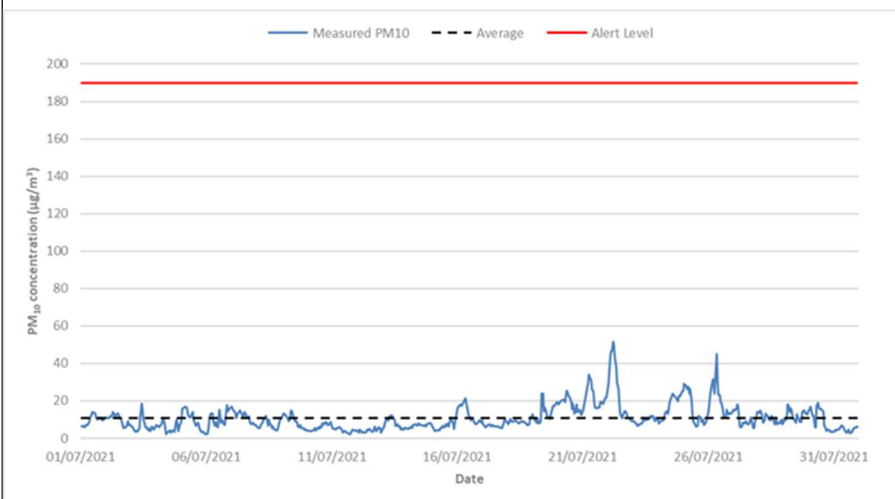


AQ007

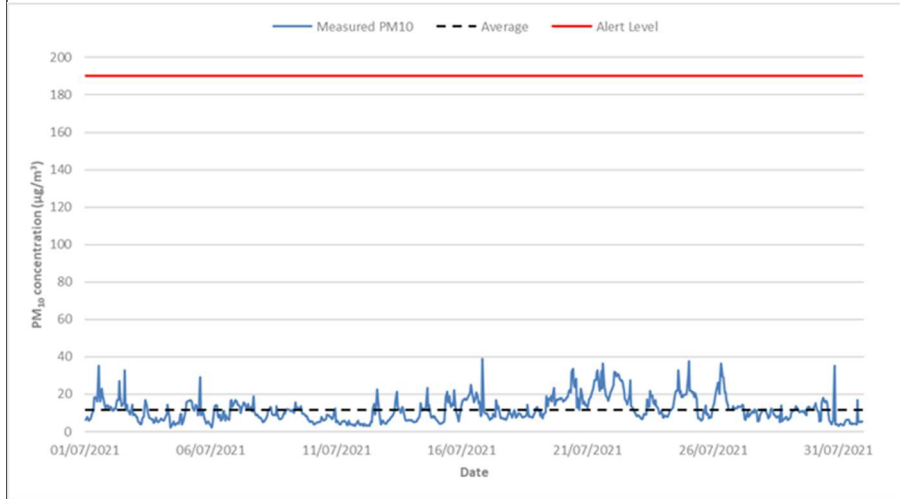


AQ008

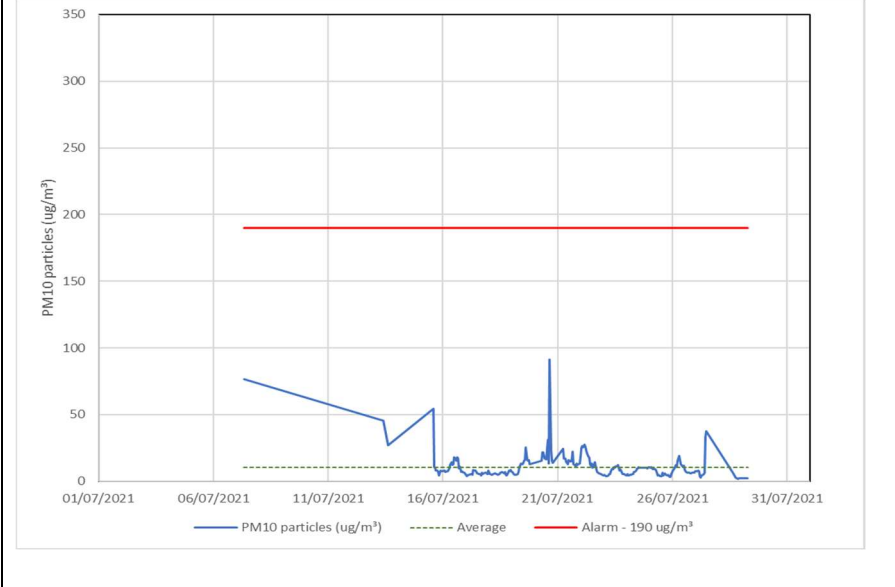
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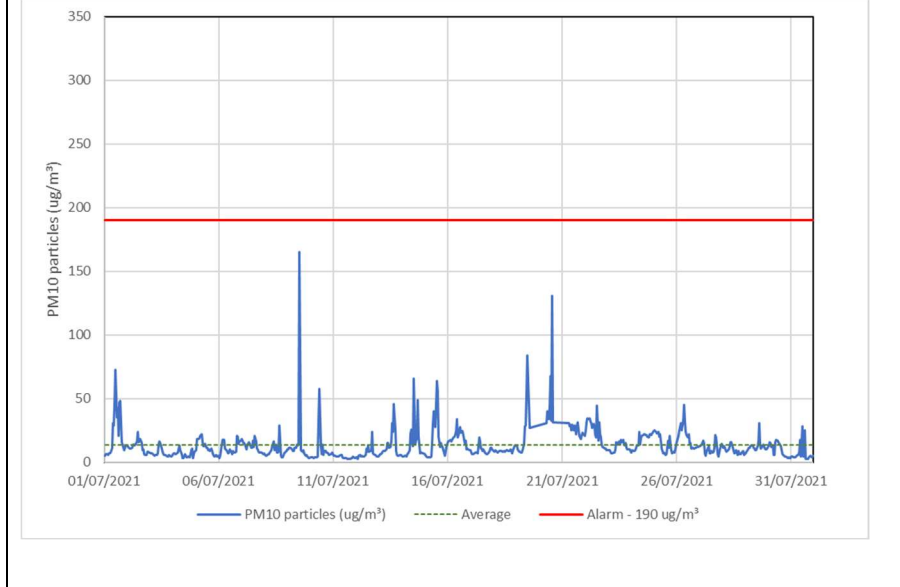
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AQ011

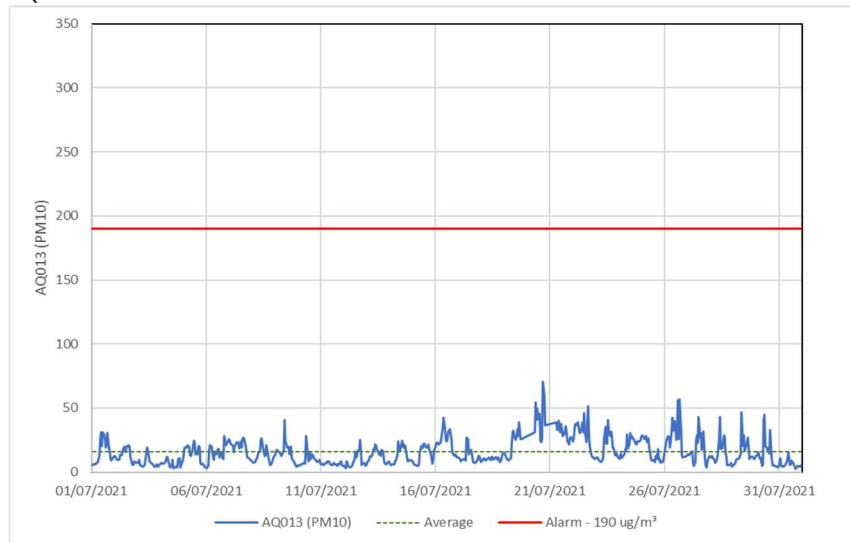


AQ012

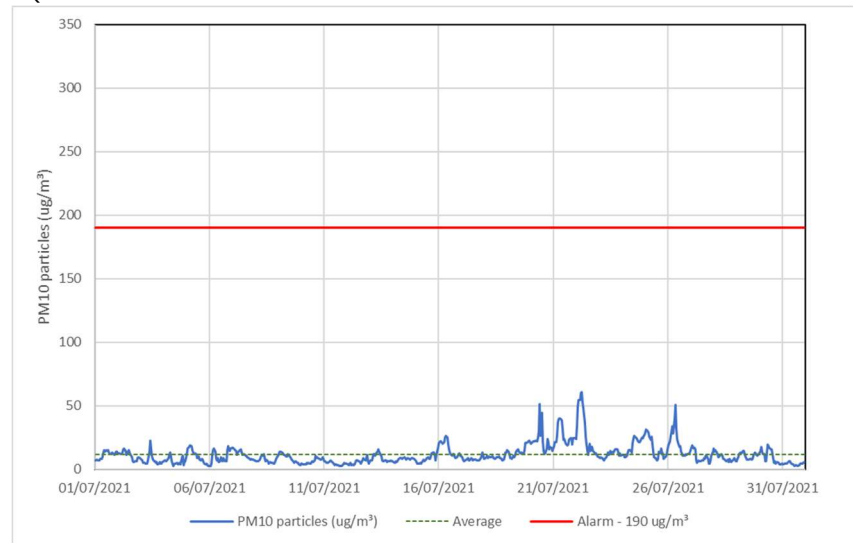




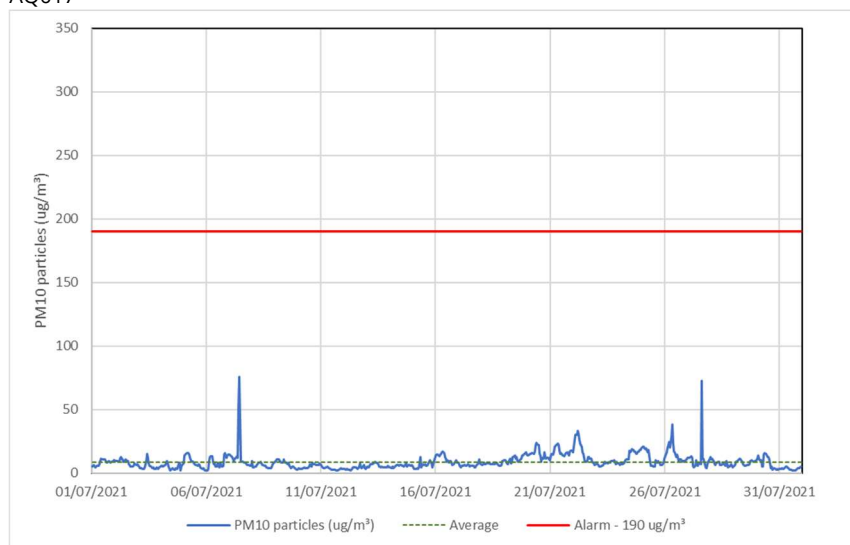
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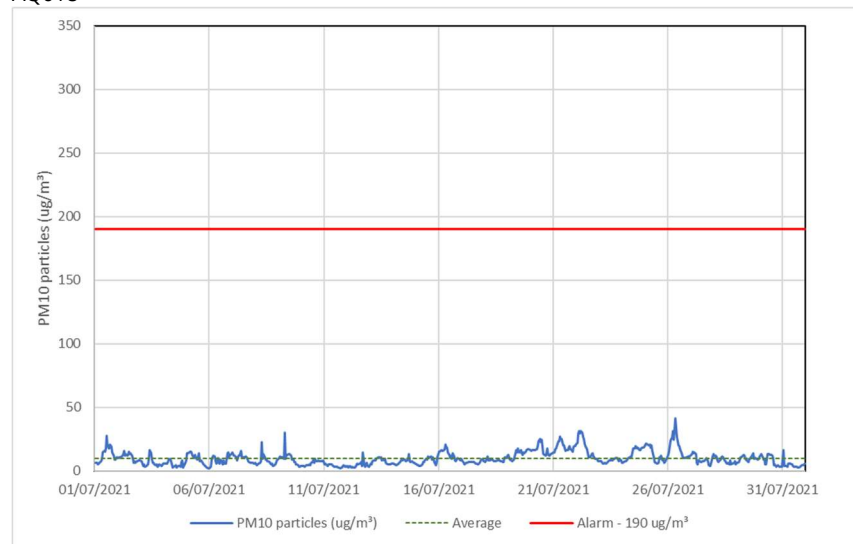
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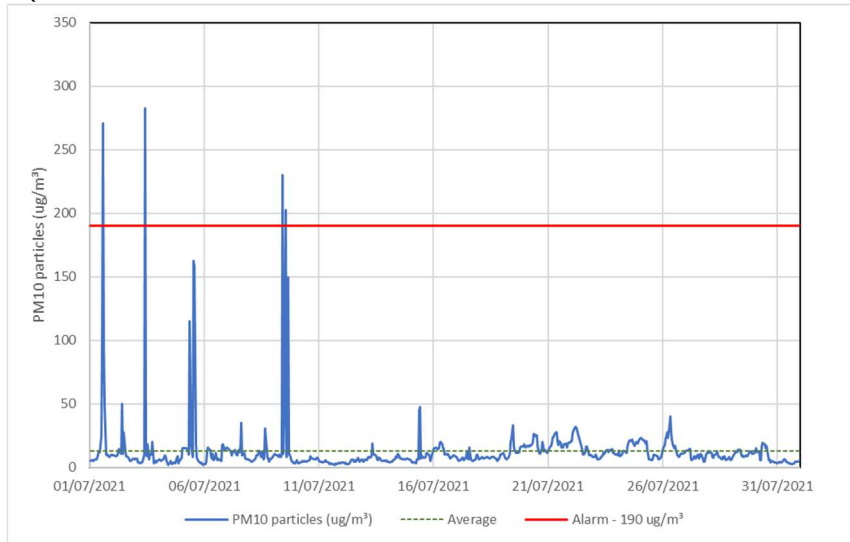
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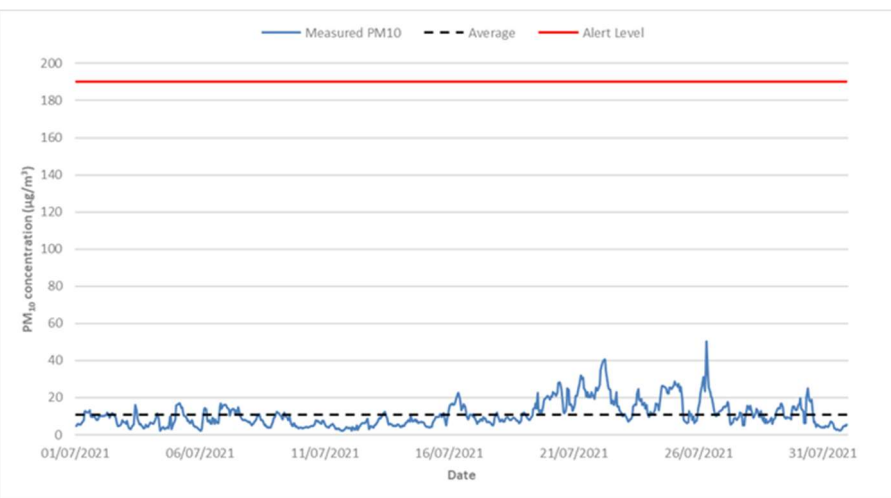
AQ018



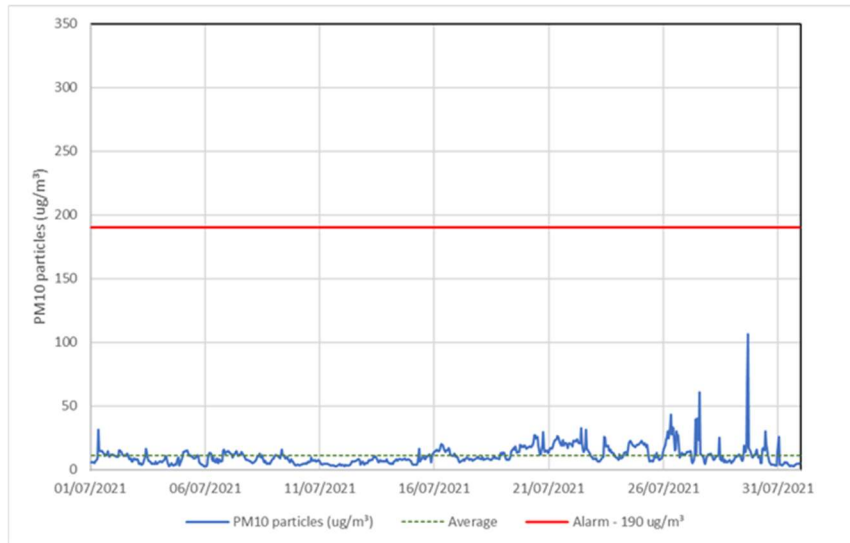
AQ019



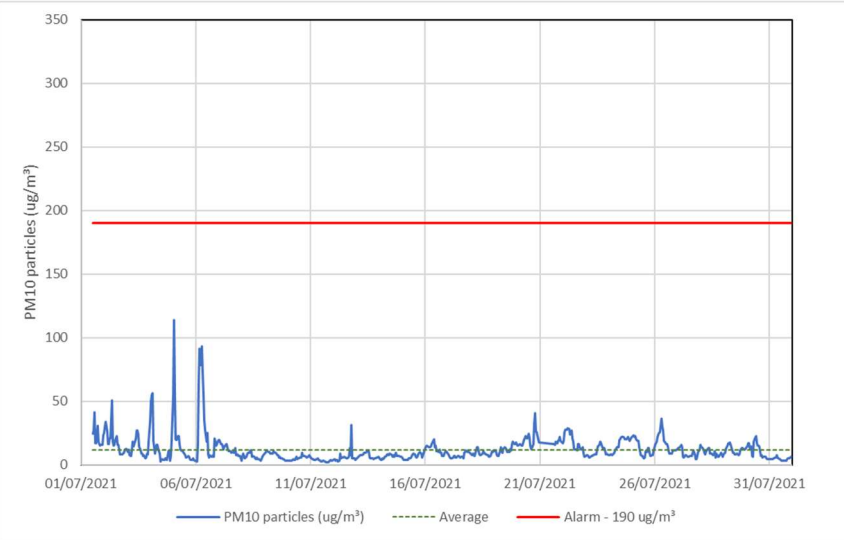
AQ020



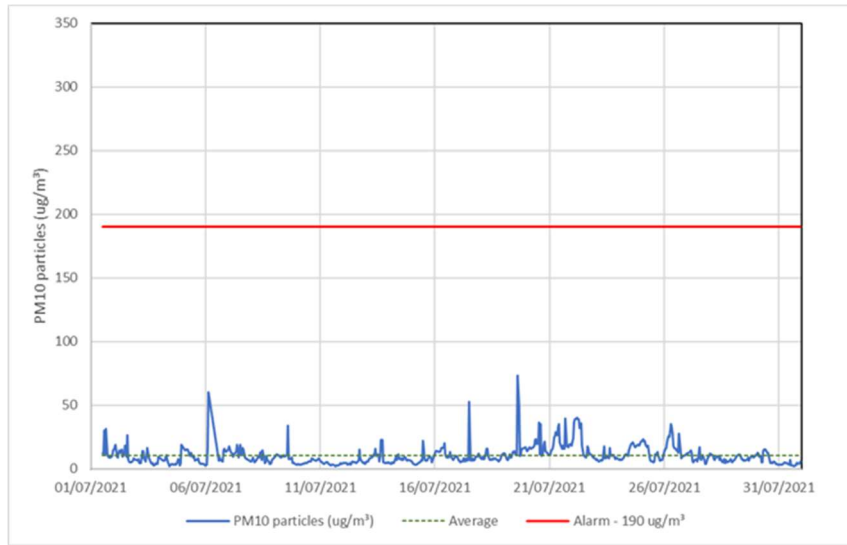
AQ021



AQ044



AQ045



## Appendix C – Air Quality Monitoring Results

Table 4: NO<sub>2</sub> monitoring locations around highways, NO<sub>2</sub> concentrations and monthly monitoring results with running mean for 2021 (µg/m<sup>3</sup>)

Monitoring Site ID	Location description	Coordinate s (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean 1
HS2-000020BM5	Junction of St Chad's Street and Grays Inn Road	530436, 182929	50	41	39	38	40	33							40
HS2-000020BM7	Chalton Street	529894, 182702	53	57	48	Tube Missing	Tube Missing	37							49
HS2-000020BM8	Junction of Euston Square and Grafton Place	529737, 182641	58	60	48	45	43	34							48
HS2-000020BM9	Junction of Endsleigh Gardens and Upper Woburn Place	529785, 182529	52	48	43	46	44	43							46
HS2-000020BMA	Junction of Euston Road and Gower Street	529429, 182375	53	47	44	42	39	36							43
HS2-000020BMB	Whitfield Street	529273, 182114	44	45	37	39	30	26							37
HS2-000020BMC	Hampstead Road	529232, 182511	68	73	65	67	66	64							67
HS2-000020BMF	Junction of Polygon Road and Ossulston Street	529715, 183123	38	37	28	34	25	21							31
HS2-000020BMH	Nash Street	528861, 182717	39	38	30	30	30	23							32
HS2-000020BMJ	Junction on Robert Street and Stanhope Street	529080, 182698	37	39	33	36	32	30							35

<sup>1</sup> 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.

Monitoring Site ID	Location description	Coordinate s (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean 1
HS2-000020BMK	Junction of Plender Street and Bayham Street	529196, 183546	50	51	44	47	43	37							45
HS2-000020BML	Junction of Arlington Road and Mornington Crescent	529093, 183356	42	38	31	32	26	20							32
HS2-000020BMM	Junction of Bayham Street and Pratt Street	529084, 183722	57	50	49	44	46	43							48
HS2-000020BMN	Junction of Delancey Street and Albert Street	528850, 183573	Tube Missing	38	38	34	32	26							34
HS2-000020BMQ	Junction of Parkway and Delancey Street	528662, 183604	46	47	41	47	42	35							43
HS2-000020BMR	Junction of Oval Road and Jamestown Road	528548, 183967	39	33	36	32	Tube Missing	24							33
HS2-000020BMS	Junction of Chalk Farm Road and Castlehaven Road	528685, 184188	50	43	40	42	42	40							42
HS2-000020BMT	Junction of Camden Road and Camden Street	529079, 184043	50	49	49	50	37	34							45
HS2-000020BMU	Junction of Southampton Road and Fleet Road	527783, 185407	40	38	36	37	36	36							37
HS2-000020BMV	Primrose Hill Road	527538, 184250	41	37	30	31	30	23							32
HS2-000020BMW	Junction of Finchley Road and Hilgrove Road	526619, 184081	50	51	45	53	53	47							50
HS2-000020BMZ	Junction of Finchley Road and Hendon Way	525102, 186042	Tube Missing	Tube Missing	50	64	62	63							60
HS2-000020BNA	Junction of Regent's Park Road and Rothwell Street	527884, 183980	40	33	26	27	26	22							29

Monitoring Site ID	Location description	Coordinate s (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean 1
HS2-000020BNC	Junction of Outer Circle and Gloucester Gate	528528, 183443	32	32	26	29	20	21							27
HS2-000020BNH	Junction of Parkway and Albert Street	528763, 183720	42	36	Tube Missing	36	31	30							35
HS2-000020BNN	Lincoln's Inn Fields	530744, 181308	38	33	29	28	Tube Missing	22							30
HS2-000020BNQ	Camley Street	529735, 183737	Tube Missing	50	37	38	31	Tube Missing							39
HS2-000020BNY	Junction of Mill Lane and Hillfield Road	524839, 185136	48	43	39	44	34	30							40
HS2-000020BNZ	Mansfield Road	528050, 185508	38	37	29	29	29	23							31
HS2-000020BP0	Junction of Camden Road and Torriano Avenue	529708, 184871	52	56	50	45	Tube Missing	48							50
HS2-000020BP2	Junction of Grays Inn Road and Holborn	531149, 181616	39	32	32	35	33	24							32
HS2-000020BPB	Camden High Street	528966, 183735	69	Tube Missing	56	55	51	56							57
HS2-000020BPC	Castlehaven Road	528788, 184591	43	37	29	27	27	24							31
HS2-000020BPD	Prince of Wales Road	528571, 184683	39	33	25	25	23	23							28
HS2-000020BPE	Haverstock Hill	527710, 184749	44	38	36	34	37	29							36
HS2-000020BPF	Junction of Primrose Gardens and England's Lane	527549, 184640	43	40	30	33	Tube Missing	31							35
HS2-000020BPU	Junction of Gower Street and Grafton Way	529476, 182267	Tube Missing	43	39	38	35	32							37
HS2-000020BPW	Junction of Delancey Street and Arlington Road	528939, 183637	39	40	39	43	36	27							37
HS2-000020BPX	Netley Street	529177, 182625	44	40	34	38	29	25							35

Monitoring Site ID	Location description	Coordinate s (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean 1
HS2-000020BPY	Stanhope Street	529060, 182947	38	32	32	33	26	21							30
HS2-000020BPZ	Albany Street	528790, 182923	39	35	33	34	29	27							33
HS2-000020BQ0	Werrington Street	529493, 183113	38	34	28	25	25	19							28
HS2-000020BQ1	Polygon Road	529574, 183045	Tube Missing	Tube Missing	29	26	26	18							25
HS2-000020BQ2	Alexandra Place	526320, 183980	37	35	29	26	24	21							29
HS2-000020BQ3	Harrington Square	529228, 183172	53	51	44	46	45	36							46
HS2-000020BQ4	Junction of North Gower Street and Starcross Street	529290, 182572	45	41	30	36	30	25							34
HS2-000020BQ5	Adelaide Road	527713, 184392	44	40	32	31	31	25							34
HS2-000020BQ6	Mornington Terrace	528836, 183474	38	33	27	27	25	15							27
HS2-000020BQ7	Arlington Road	529009, 183479	35	35	29	29	22	20							28
HS2-000020BQ8	Clarkson Row	529024, 183213	37	39	31	31	Tube Missing	20							32
HS2-000020BQ9	Park Village East	528923, 183121	37	37	31	31	27	22							31
HS2-000020BQA	Eversholt Street	529386, 183132	55	47	42	36	35	Tube Missing							43
HS2-000020BQB	Junction of Harrington Street and Varndell Street	529147, 182816	32	40	31	31	25	24							31
HS2-000020BQC	Junction of Robert Street and Hampstead Road	529199, 182704	47	49	38	40	32	26							39
HS2-000020BQD	Drummond Crescent	529648, 182856	47	47	33	35	28	26							36
HS2-000020BQJ	Grafton Way	529380, 182225	47	46	41	38	40	36							41

Monitoring Site ID	Location description	Coordinate s (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean 1
HS2-000020BQL	Delancey Street	528768, 183581	46	46	42	48	42	28							42
HS2-000020BQR	Lamp post on Park Village East	528682, 183505	37	35	29	30	27	23							30
HS2-000020BQS	Opposite Maria fidelis school on Phoenix Road	529670, 182982	42	42	30	28	26	22							32
HS2-000020BQT	Drummond Street	529385, 182581	40	44	37	38	33	26							36
HS2-000020BQX	Lamp post on Brunswick Square	530344, 182236	45	40	36	25	28	23							33
HS2-000020BP4	Triplicate site on Finchley Road next to Swiss Cottage kerbside automatic monitoring station	526633, 184392	Tube Missing	52	Tube Missing	Tube Missing	58	52							54
HS2-000020BP5	Triplicate site next to the Euston Road roadside automatic monitoring stations	529895, 182657	55	62	57	61	60	53							58
HS2-000020BP9	Triplicate site in Russell Square next to Bloomsbury urban background automatic monitoring station	530120, 182034	38	36	36	32	30	22							32