

Air Quality and Dust Monitoring Monthly Report – January 2023

City of Westminster



Department for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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

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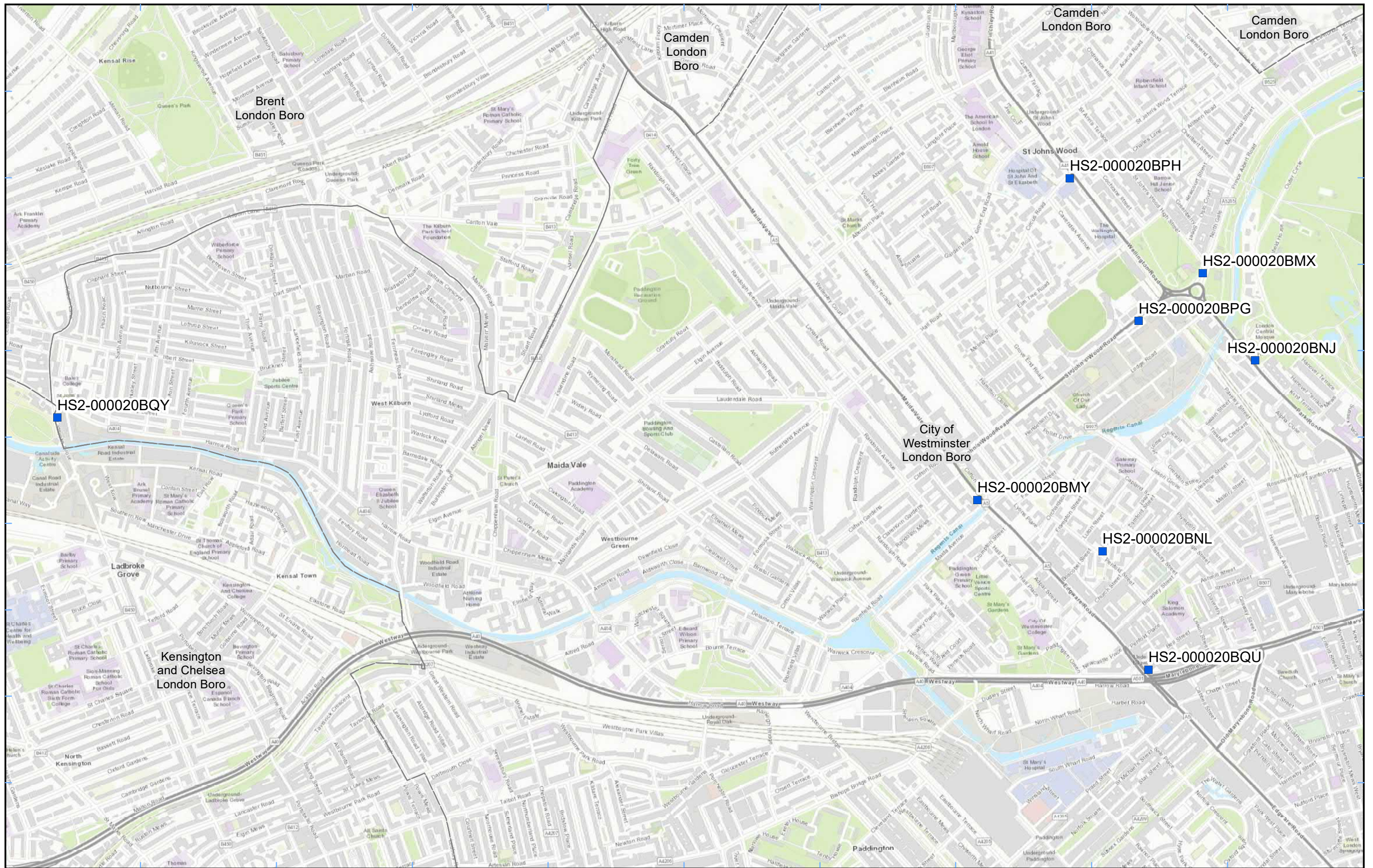
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Monthly Summary

- 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 monitoring undertaken in the City of Westminster (CoW) during December 2022.
- 1.1.2 Figure 1 and Figure 2 in Appendix A indicate the current air quality 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 There are no current worksites located within the CoW. Therefore, no dust monitoring has been carried out.
- 1.1.5 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) was undertaken at thirteen (13) locations around highways within the CoW as part of the management of air quality where significant effects may occur as a result of the scheme.
- 1.1.6 Diffusion tube monitoring results are provided as 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.
- 1.1.7 NO₂ monitoring locations and results are presented in Appendix B, Table 1, together with the 2022 running mean.
- 1.1.8 There were no (0) complaints received during this reporting period (January 2023).

Appendix A –Monitoring Locations

Figure 1 and 2: Current monitoring locations within the CoW



Legend
■ Diffusion Tube
 District Borough Unitary Boundaries

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Map Number
 Map Name
**Monitoring Locations In CoW
 (Sheet 1)**
City of Westminster

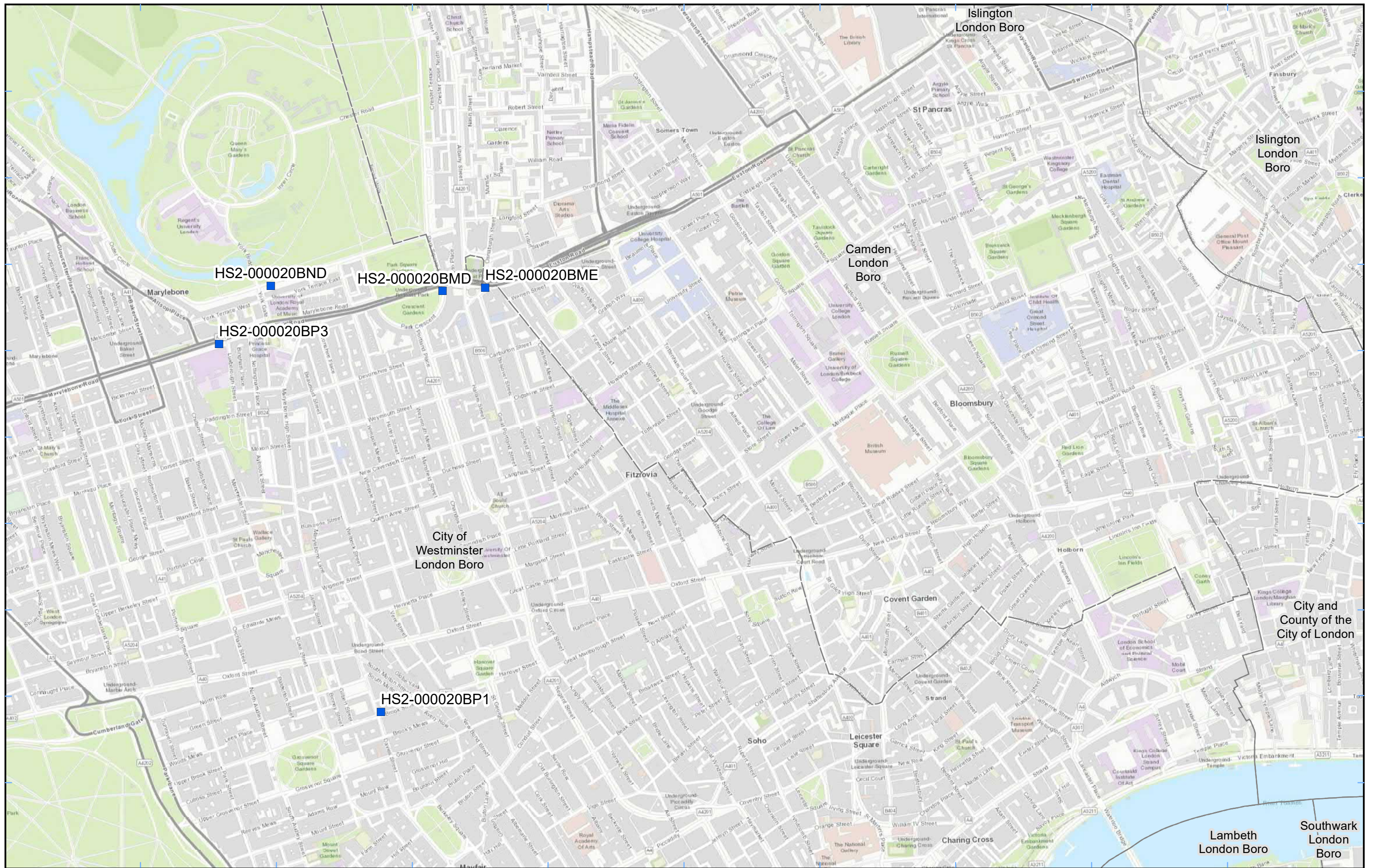
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Legend
■ Diffusion Tube
 District Borough Unitary Boundaries

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
Monitoring Locations In CoW (Sheet 2)
 City of Westminster

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Appendix B – Air Quality Monitoring Results

Table 1: NO₂ monitoring locations around highways, NO₂ concentrations and monthly monitoring results with running mean for 2022 (µg/m³)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BMD	Lamp post on Park Crescent Road	528776, 182170	56	48	69	53	45	42	47	49	50	48	51	49	51
HS2-000020BME	Lamp post in between A501 and A4201	528901, 182180	76	Tube Missing	83	Tube Missing	61	56	65	68	69	61	66	64	67
HS2-000020BMX	Sign post by roundabout on A5205	527206, 182887	53	37	41	28	30	21	34	33	40	43	45	47	38
HS2-000020BMY	Lamp post between Blomfield Road and Edgware Road	526549, 182226	62	45	50	34	Tube Missing	Tube Missing	39	35	Tube Missing	39	43	47	44
HS2-000020BND	Outer Circle Regent's Park	528276, 182185	36	38	36	24	Tube Missing	23	21	21	23	31	34	Tube Missing	29
HS2-000020BNJ	Light post on Park Road	527359, 182633	61	46	53	50	37	40	41	34	40	46	47	45	45

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.

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ¹
HS2-000020BNL	Lamp post on Penfold Street	526914, 182077	49	32	40	28	23	20	24	24	28	33	34	40	31
HS2-000020BP1	Lamp post on Brook Street	528597, 180942	61	Tube Missing	58	41	35	36	35	39	43	45	50	58	45
HS2-000020BPG	Lamp post on St John's Wood Street	527019, 182748	53	35	48	27	29	20	25	28	30	35	35	41	34
HS2-000020BPH	Lamp post St John's Wood Terrace	526818, 183164	Tube Missing	40	41	31	53	27	29	27	32	39	41	32	36
HS2-000020BQU	Lamppost outside Edgware Road Station	527048, 181731	70	52	62	56	47	43	48	Tube Missing	Tube Missing	Tube Missing	52	63	55
HS2-000020BQY	Sign post on Ladbroke Grove	523867, 182466	59	37	62	38	32	35	Tube Missing	36	50	42	No data	38	43
HS2-000020BP3	Triplicate site next to the Marylebone Road kerbside automatic monitoring stations	528125, 182016	78	84	73	51	53	50	46	48	48	54	54	54	58