

Air Quality and Dust Monitoring Monthly Report – **April** 2020

London Borough of Hillingdon



SKANSKA



Department for Transport

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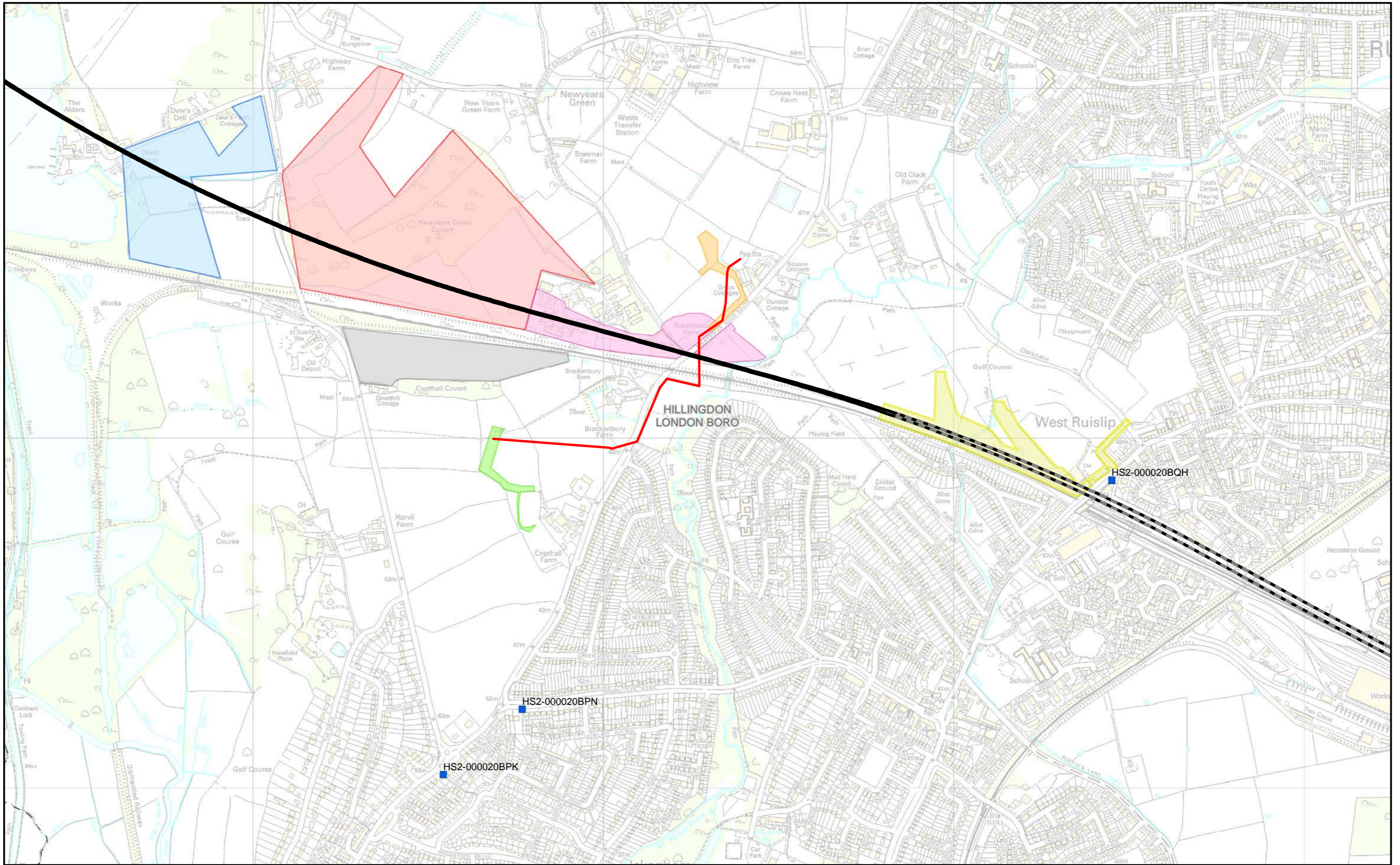
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Monthly Summary

- 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 London Borough of Hillingdon (LBH) during March 2020.
- 1.1.2 Figure 1 to Figure 4 in Appendix A indicate the current worksites, together with 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 The current phase of works commenced within the LBH during May 2018 and are expected to be completed by May 2020. The next phase of construction works commenced in November 2019 and is expected to be completed by 2025. The current worksites, as presented in Appendix A, Figure 1 to Figure 4, include:
- 18' and 48' gas pipeline diversions, advanced planting and habitat creation;
 - Merck Sharpe Dohme (MSD), demolition works and new access road construction, completed;
 - Utility diversions at Breakspear Road South;
 - Utility diversions at Cophall North and South; and
 - West Ruislip Portal site mobilisation and site compound set up, haul road construction and vegetation clearance.
- 1.1.5 No dust generating activities are currently underway with the LBH and therefore, there are no (0) dust monitors currently installed around the worksites. These sites returned a medium dust risk rating.
- 1.1.6 Diffusion tube monitoring of Nitrogen Dioxide (NO₂) is undertaken at eleven (11) locations around highways within the LBH as part of the management of air quality where significant effects may occur as a result of the scheme. Due to the Covid-19 pandemic and government lockdown it was not possible to conduct diffusion tube air quality monitoring in March 2020.
- 1.1.7 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.
- 1.1.8 NO₂ monitoring locations and results are presented in Appendix B, Table 1, together with the 2020 running mean.
- 1.1.9 There were no (0) complaints received, relating to air quality, during this monitoring period (April 2020).

Appendix A – Worksites and Monitoring Locations

Figure 1 to Figure 4: Current monitoring locations within the LBH



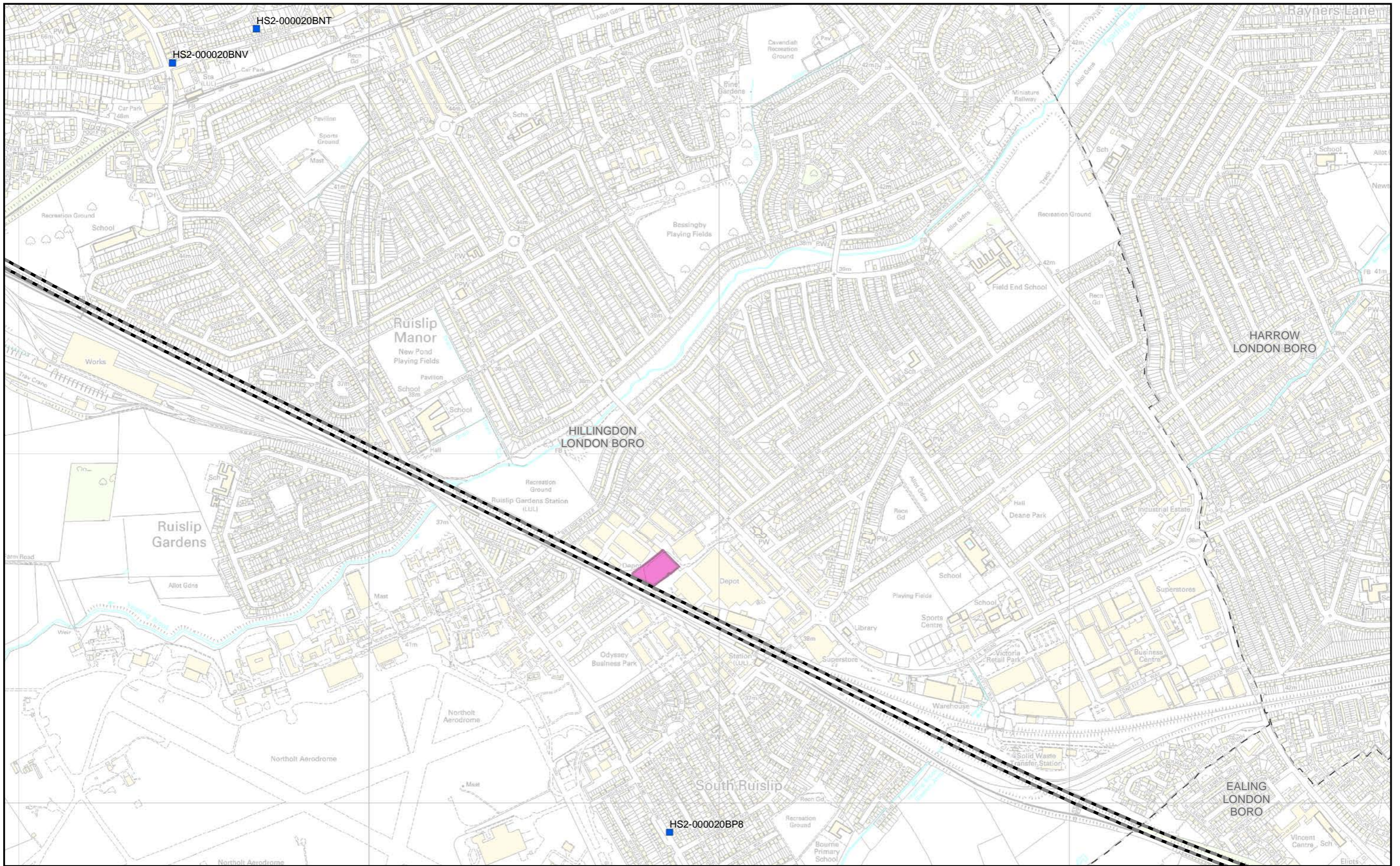
Legend	
	Route in tunnel
	Route on surface
	Diffusion tube monitoring location
	Trunk Main Diversion Route
	West Ruislip Portal
	Copthall North worksite
	Copthall South worksite
	18' and 48' gas pipeline diversions
	Merck Sharpe Dhome worksite
	Utility Diversion worksite south
	Utility Diversion worksite north

Figure Number
Figure Name
Worksites and Monitoring locations in LBH (sheet 1)
London Borough of Hillingdon

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- Legend**
- Route in tunnel
 - Route on surface
 - Diffusion tube monitoring location
 - South Ruislip Vent Shaft

Figure Number

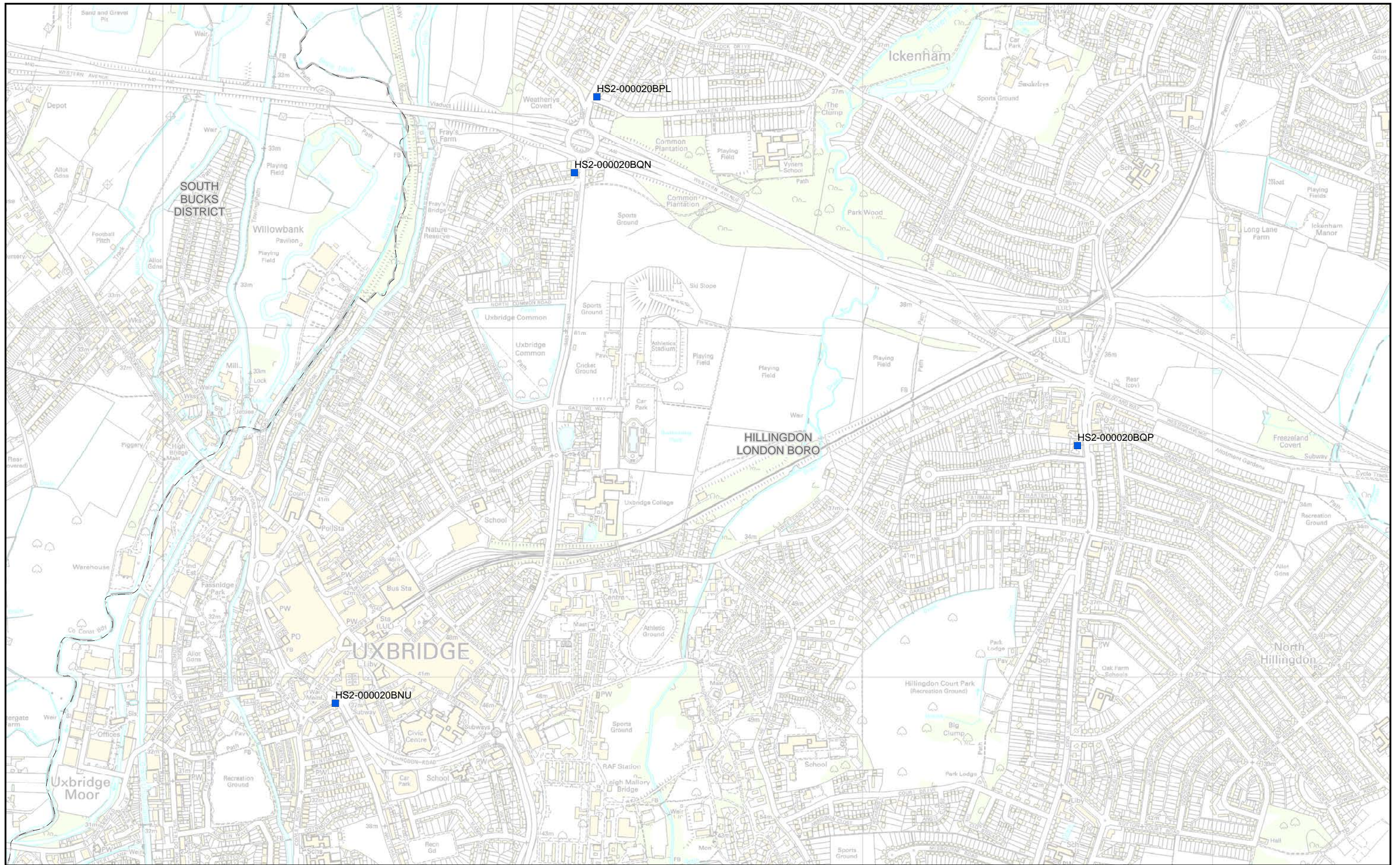
Figure Name
Worksites and Monitoring locations in LBH
 (sheet 2)

London Borough of Hillingdon

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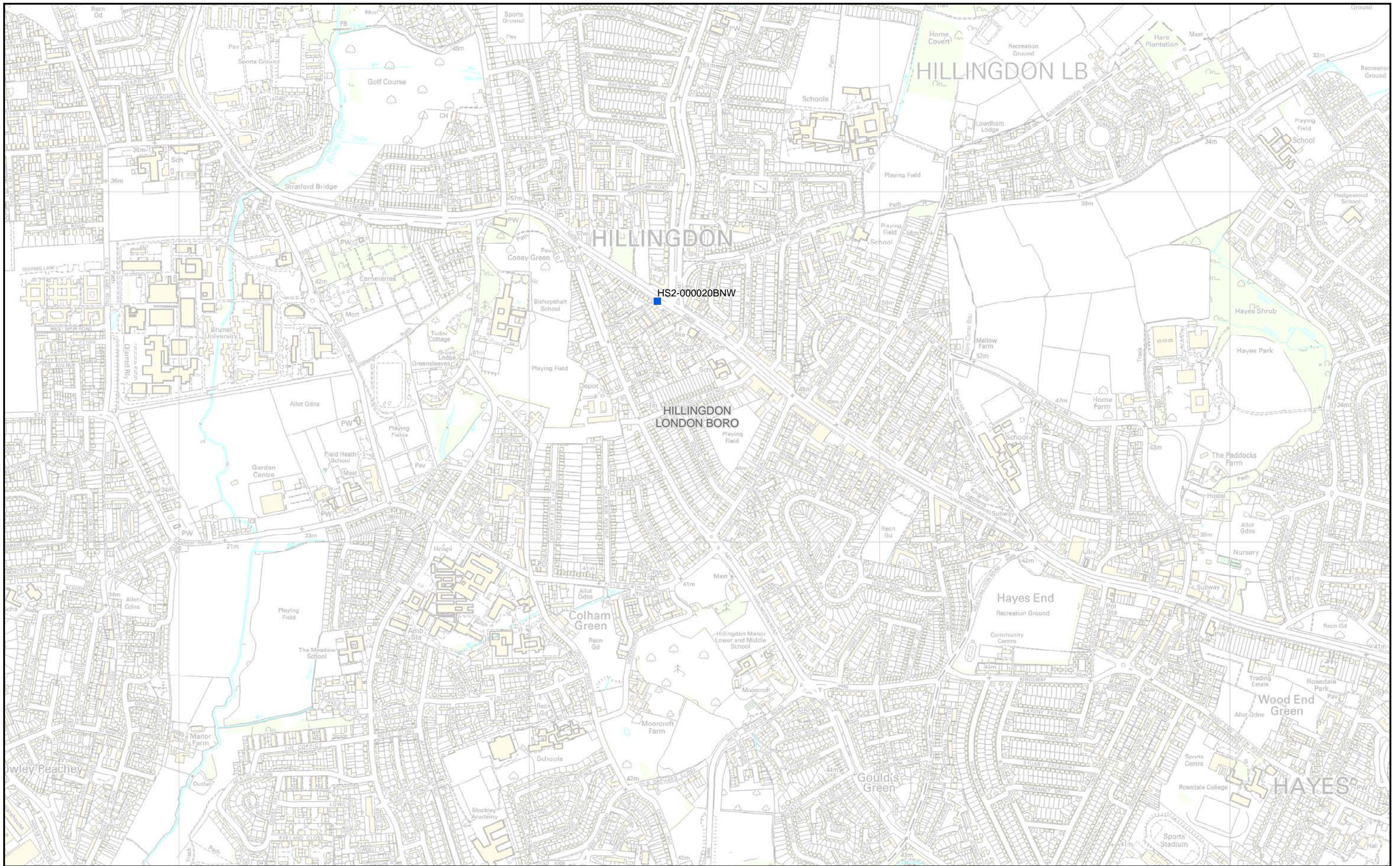
- Legend**
- Route in tunnel
 - Route on surface
 - Diffusion tube monitoring location

Figure Number
Figure Name
Worksites and Monitoring locations in LBH (sheet 3)
London Borough of Hillingdon

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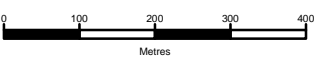
- Legend**
-  Route in tunnel
 -  Route on surface
 -  Diffusion tube monitoring location

Figure Number
Figure Name Worksites and Monitoring locations in LBH (sheet 4)
London Borough of Hillingdon

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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 2020 (µg/m³)

Monitoring Site ID	Location description	Coordinates (X, Y)	Jan	Feb	Mar ¹	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ²
HS2-000020BNT	Lamp post on Pembroke Road	509678, 187214	35	26	No data										31
HS2-000020BNU	Cowley Road sign post at junction with Hillingdon Road	505492, 183926	49	46	No data										48
HS2-000020BNV	High Street sign post at junction with Pembroke Road	509439, 187117	45	33	No data										39
HS2-000020BNW	Signpost on A4020 Uxbridge Road at junction with Long Lane	507365, 182687	43	32	No data										37
HS2-000020BPK	Lamp post in crescent off Swakeleys Road	506542, 186037	40	34	No data										37
HS2-000020BPL	Warren Road sign post on corner of Swakeleys Road and Warren Road	506240, 185660	51	40	No data										46
HS2-000020BPN	Lamp post on B467	506767, 186224	41	30	No data										36
HS2-000020BQH	Lamp post on High Road Ickenham	508451, 186879	44	37	No data										40

¹ Note: Due to the Covid-19 pandemic and government lockdown it was not possible to conduct diffusion tube air quality monitoring in March 2020.

² 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 ¹	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean ²
HS2-000020BQN	Lamp post on Park Road	506176, 185444	47	34	No data										40
HS2-000020BQP	Sign post on Long Lane	507614, 184663	45	33	No data										39
HS2-000020BP8	Triplicate site at South Ruislip roadside automatic monitoring station	510858, 184916	39	32	No data										36