

January 2022

Air Quality and Dust Monitoring Monthly Report – January 2022 Birmingham City Council

© HS2 Ltd.

gov.uk/hs2



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.

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

Telephone: 08081 434 434

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.gov.uk/hs2

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

High Speed Two (HS2) Limited has actively considered the needs of blind and partially sighted people in accessing this document. The text will be made available in full on the HS2 website. The text may be freely downloaded and translated by individuals or organisations for conversion into other accessible formats. If you have other needs in this regard please contact High Speed Two (HS2) Limited.

© High Speed Two (HS2) Limited, 2021, except where otherwise stated.

Copyright in the typographical arrangement rests with High Speed Two (HS2) Limited.

This information is licensed under the Open Government Licence v2.0. To view this licence, visit www.nationalarchives.gov.uk/doc/open-governmentlicence/version/2 **OGL** or write to the Information Policy Team, The National Archives, Kew, London TW9 4DU, or e-mail: psi@nationalarchives.gsi.gov.uk. Where we have identified any third-party copyright information you will need to obtain permission from the copyright holders concerned.



Printed in Great Britain on paper containing at least 75% recycled fibre.

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 within Birmingham City Council (BCC) during January 2022.
- 1.1.2 Figures 1 to 3 in Appendix A indicates the current worksites together with the dust monitoring locations for January 2022.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report monthly available from <u>www.gov.uk/government/collections/monitoring-the-</u> <u>environmental-effects-of-hs2</u>, 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 in October 2020 and are expected to be completed by 2025. The current worksites, as presented in Appendix A, Figures 1 to 3, include:

Curzon Street Station

- Ground remediation; and
- Utility diversion works.

Washwood Heath

- Setup of the compound area and haulage routes; and
- Demolition and crushing of existing concrete foundations on site.

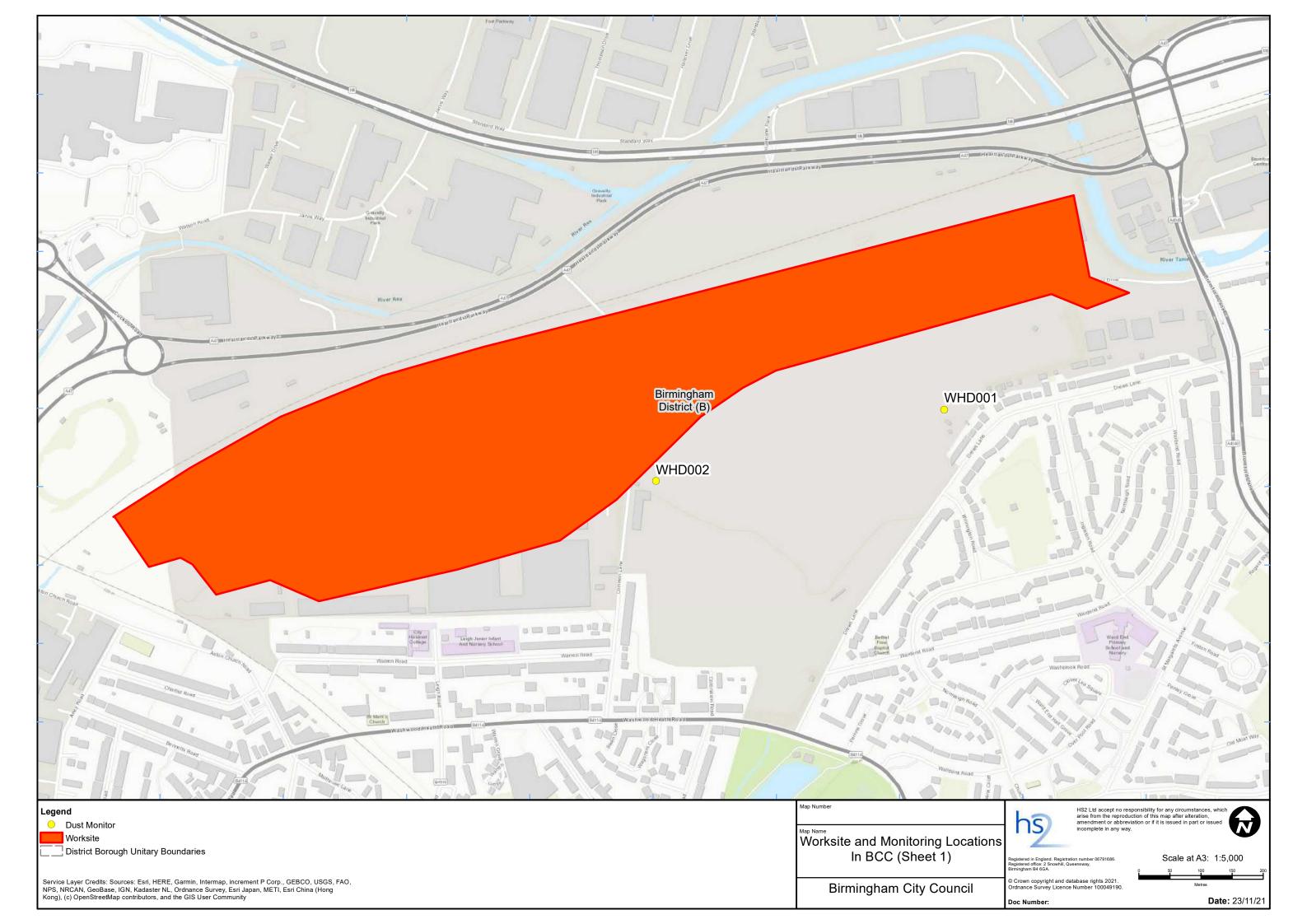
Bromford East Tunnel Portal

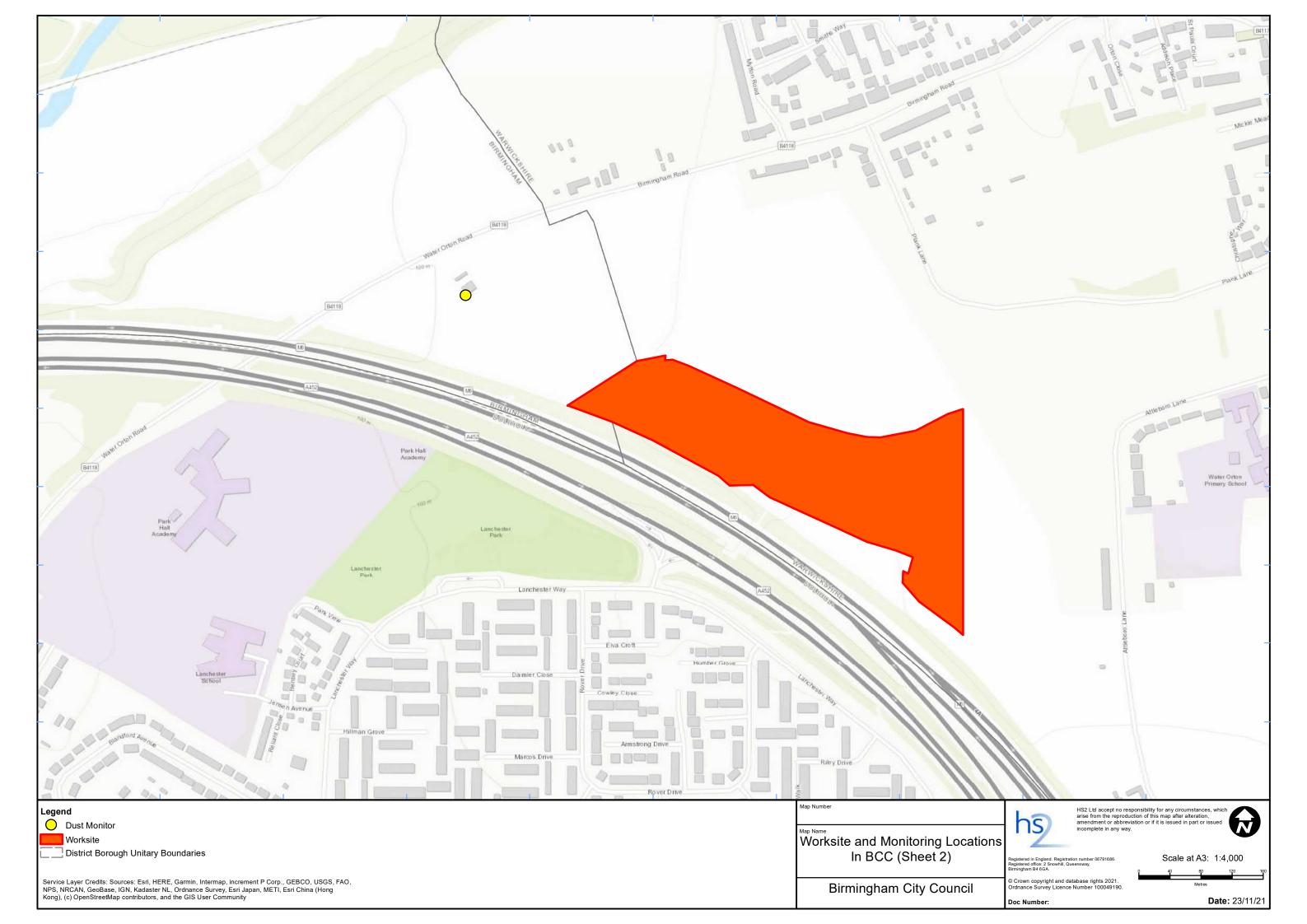
- On site slurry treatment
- 1.1.5 Six (6) dust monitors are installed around worksites, where works are underway. These sites returned a medium to high dust risk rating.
- 1.1.6 Dust monitoring locations and results for January 2022 are presented in Appendix B, Table 1, together with line charts of monthly data from the dust monitors, presented 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 mitigations.

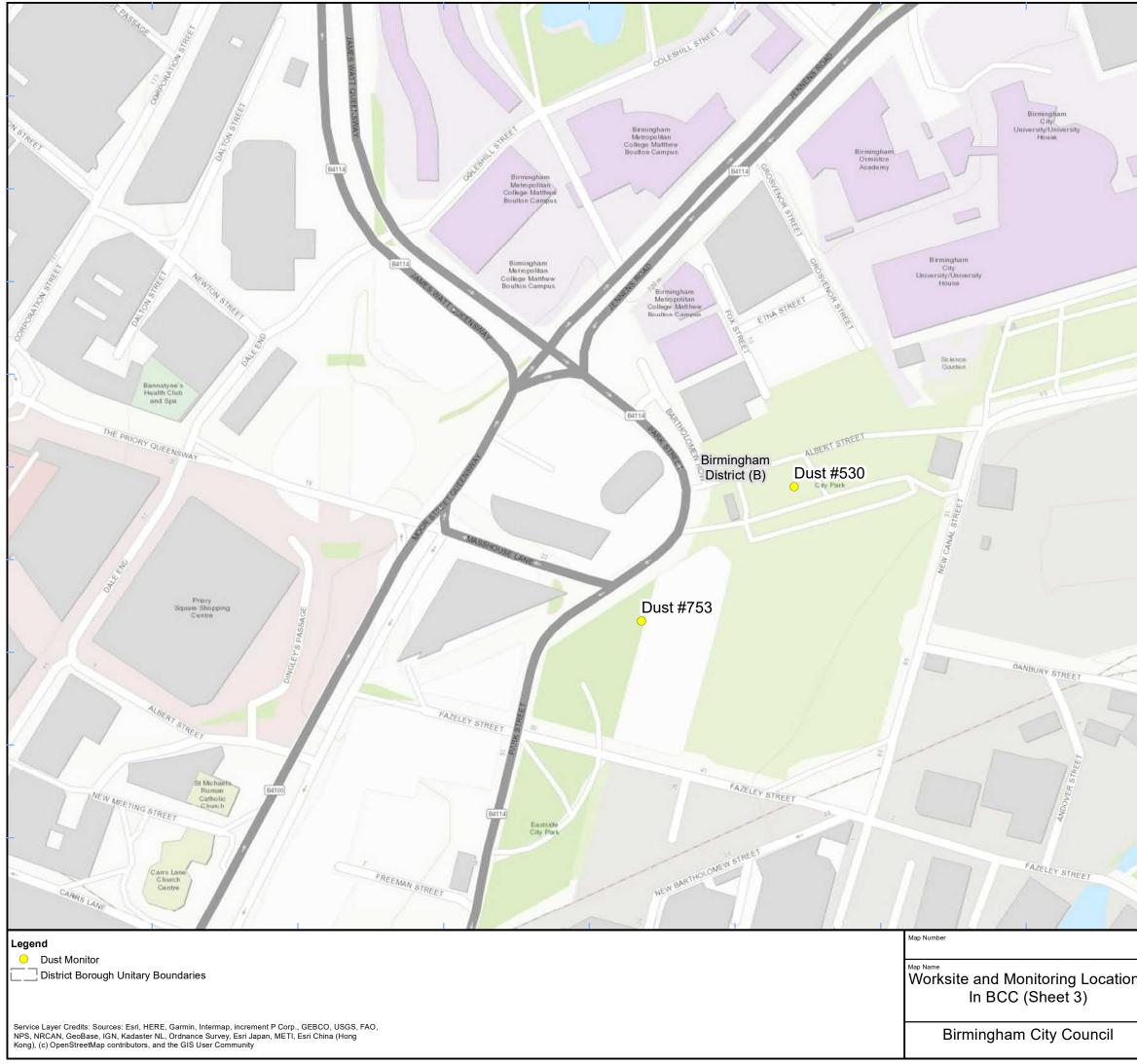
- 1.1.7 The trigger level for PM₁₀ concentrations of 190 μg/m³, over a 1-hour period, in accordance with the updated guidance document *'Guidance on Monitoring in the Vicinity of Demolition and Construction Sites (October 2018)*' has been applied.
- 1.1.8 No (0) dust trigger alerts were recorded during the monitoring period (January 2022).
- 1.1.9 There were no (0) complaints received during this reporting period (January 2022).

Appendix A – Worksites and Monitoring Locations

Figure 1 to 3: Worksites and monitoring locations within the BCC







	10	N STREET		
	T) =		2
			GOPSAL STREE	
		1/F		H
		8		9
				3
			7/ /	_
		Easter	le.	
1		Eastaid City Pa		-
				TREET
			o' CU	RZON STREET
CURZON STREET				_
Corre				
				7
				-
				1
		>		
OF	5			
				/-
\sim	1			~
× 1				
	À.			
1				
		12 1		
hs	HS2 Ltd accept arise from the r amendment or	no responsibility fo eproduction of this r abbreviation or if it i	r any circumstances, which map after alteration, s issued in part or issued	
ons	incomplete in a	ny way.		
Registered in England. Registra Registered office: 2 Snowhill, Qu Birmingham B4 6GA.	tion number 06791686 Jeensway,		Scale at A3: 1:2	
© Crown copyright and da Ordnance Survey Licence			20 40 Metres	60 80
Doc Number:			Date	: 23/11/21

Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and January 2022 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 (µg/m³)	Minimum 1-hour PM ₁₀ concentration (µg/m³)	Maximum 1- hour PM ₁₀ concentration (µg/m³)	Number of 1- hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
WHD001	411221, 289245	Washwood Heath Depot, near receptors on Drews Lane	М	Yes	No	10.4	0.6	44.4	0	99.3
WHD002	410758, 289130	Washwood Heath Depot, near receptors on Common Lane	М	Yes	No	1.2	0.1	29.5	0	93.5
BETP001	416620, 290808	Bromford East Tunnel Portal, Twisted Oak Stables	М	Yes	No	13.1	0.4	75.3	0	98.1
BETP002	417467, 290649	Bromford East Tunnel Portal, Attleboro Lane	М	Yes	No	11.8	0.2	49.3	0	99.3
Dust #530 (old #555)	407702, 287079	Curzon Street Station HS2 Site	н	N/A	N/A	9.76	0.64	43.37	0	100.0
Dust #753	407619, 287006	Curzon Street Station HS2 Site	Н	N/A	N/A	6.85	0	35.46	0	100.0

Air Quality and Dust Monitoring Summary Report, January 2022 Birmingham City Council

Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors

