

October 2023

Air Quality and Dust Monitoring Monthly Report – October 2023 Warwick District Council

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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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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 Warwick District Council (WDC) during October 2023.
- 1.1.2 Figures 1 to Figure 3 in Appendix A present the current worksites together with the dust monitoring locations.
- 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 worksites, as presented in Appendix A, Figures 1 to 3, include:

Sublot 2A2

Fosse Way Main

- Stockpile maintenance.
- Moving stockpiles.
- Haul road use.

Stoneleigh Park

- Piling.
- Operational haul road.
- Pump test.
- AECOM monitor maintenance.
- Platform construction.
- Site maintenance.
- Construction of north accommodation overbridge.
- Installation of sheet piles.

Cubbington Compound Worksite

- Working platform construction.
- Silt fence installation.
- Strimming.
- Haul road maintenance.
- V ditch and pond maintenance.
- Piling works.

Burton Green Tunnel (Sublot 2B2)

- Concrete pours by Galldris.
- Utility diversion works at Cromwell Lane

Welsh Road Underbridge Satellite Compound (Sublot 2AS)

Offchurch Cutting

- Welsh Road UB Installation of reinforcement and shutters to abutment Wall 1.
- Trial holes to edges of Grand Union Canal at Longhole Viaduct.
- Realignment of Ridgeway Lane at Longhole viaduct.
- Vegetation clearance to south side of canal.
- Topsoil strip to south of canal.
- Ditch diversion to south of canal.
- Offchurch Cutting topsoiling and drainage blanket.
- Install wheelwash at Roadhead at Fosse way Compound.
- Bulk excavation and construction of secondary piling platforms and access roads to Fosse Way Overbridge.
- Trim piles at Fosse Way Overbridge.
- Prepare stone and concrete bases for additional compound area at Foss Overbridge.
- Steel and concrete to abutments and pier bases at Hunn Road Overbridge.
- Pile integrity testing to plies at Fosse Way overbridge.
- Severn Trent trenching works and pipe install for water main diversion including concrete slabs over water main.
- Pile cap construction and concrete of bases Abutment AB0 and AB3.
- Scaffold, formwork, and reinforcement to Pier P2 at Hunn Road Overbridge.
- Backfill to Pier pilecaps at Hunn Road OB.
- Drainage pipe repairs to temp Drainage system at Hunn Road.
- Remedial works and cleaning out of Drainage v-ditches.
- Bulk Earthworks to River Leam Embankment area.
- Install permanent drainage pipes and manholes at River Leam Embankment.

A429 Kenilworth Road Overbridge (Sublot 2B1)

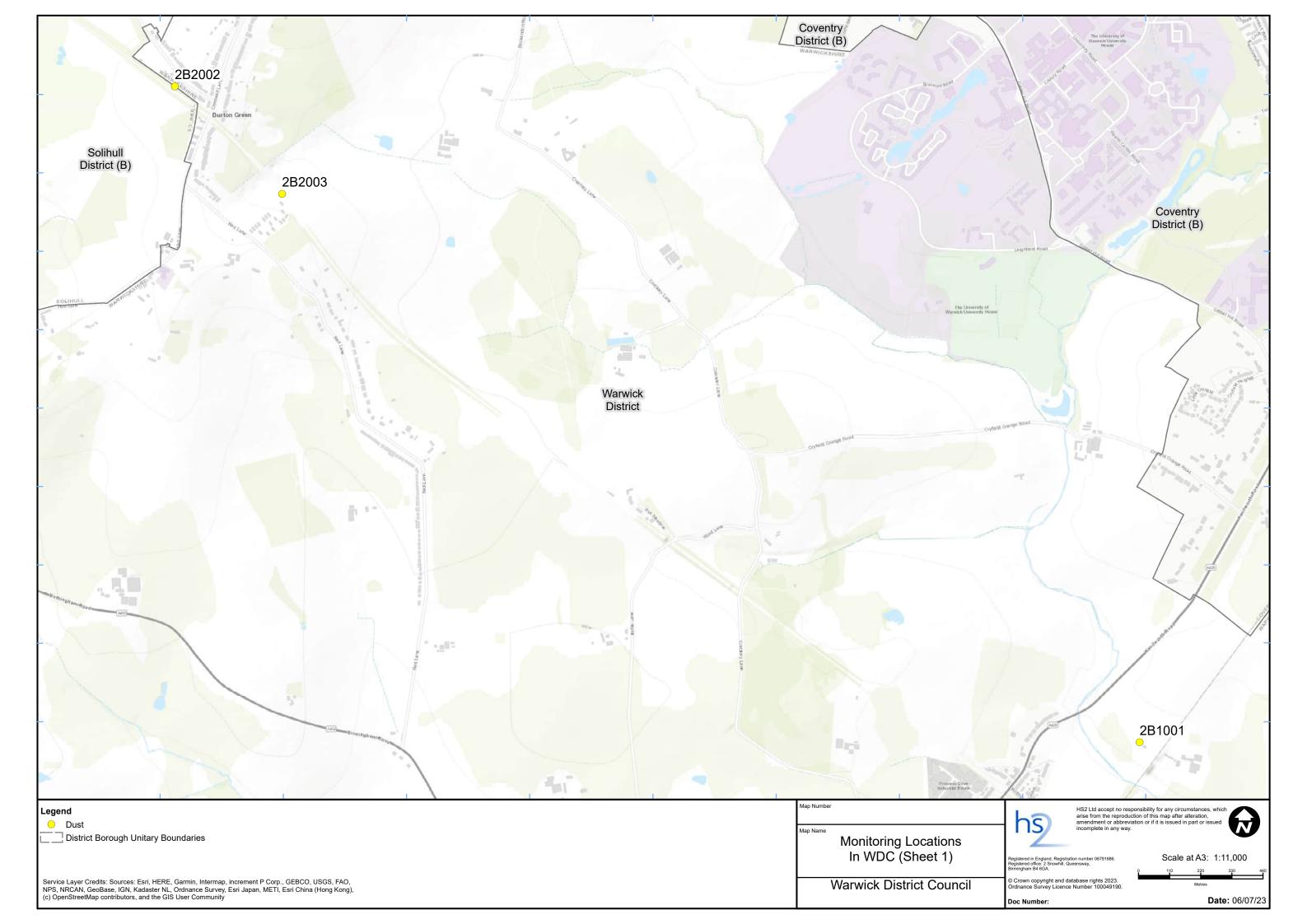
- No works are being undertaken.
- 1.1.5 Nine (9) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor, 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

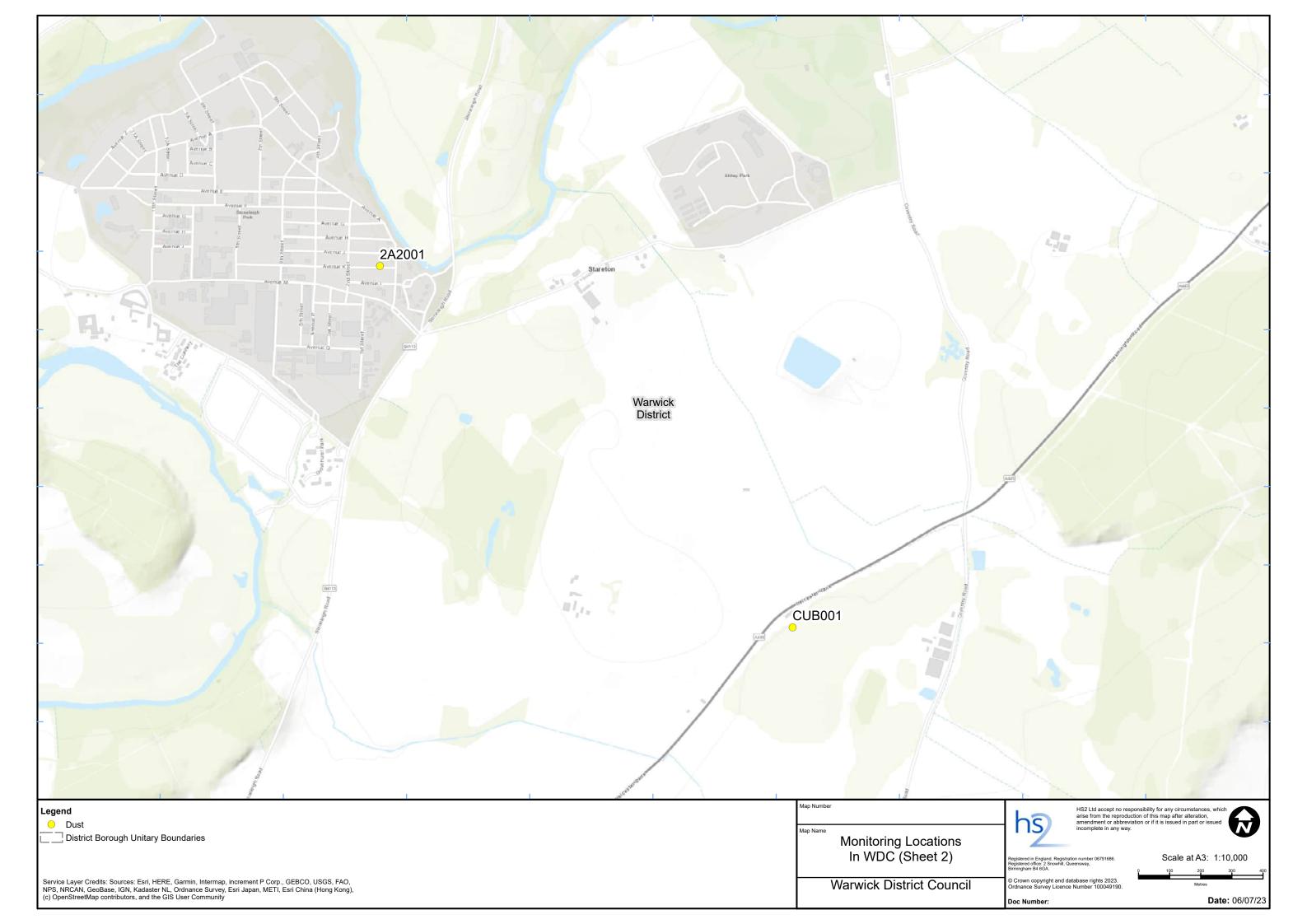
for human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of the on-site mitigation.

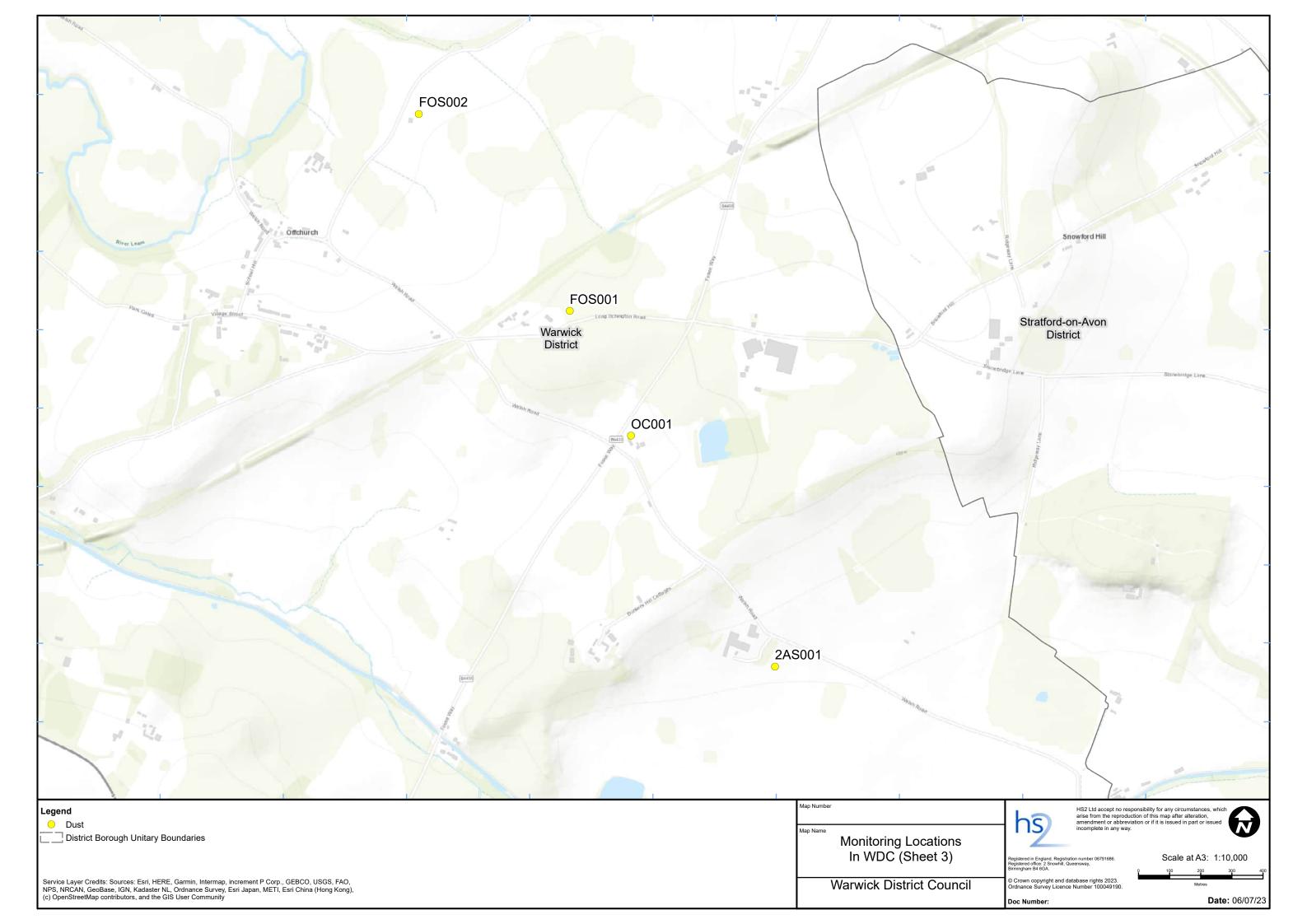
- 1.1.7 The trigger level for PM₁₀ concentrations of 190 μg/m³, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites (October 2018)* has been applied.
- 1.1.8 Details of the trigger alert investigations and remediations are presented in Appendix B, Table 2.
- 1.1.9 Data capture was below 90% for multiple monitors due to 2B2002 having a power supply issue associated with overgrown vegetation blocking the solar panels. The overgrown vegetation was cleared on 24th October.
- 1.1.10 There were no (0) complaints received during the reporting period (October 2023).

Appendix A – Worksites and Monitoring Locations

Figures 1-3: Worksites and Monitoring Locations within WDC







Appendix B – Dust Monitoring Results

Table 1: Dust Monitoring Locations and Results

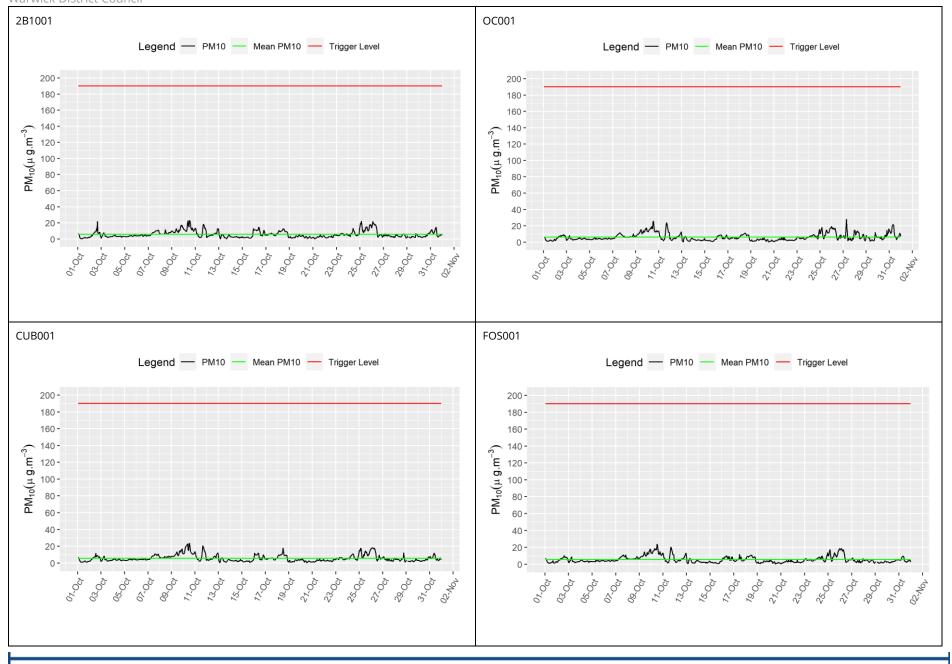
Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM ₁₀ concentration (μg/m³)	Minimum 1- hour PM ₁₀ concentration (μg/m³)	Maximum 1- hour PM ₁₀ concentration (μg/m³)	Number of 1- hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
2A2001	432798, 271434	East Lodge, Stoneleigh Park	М	Yes	No	5.4	0.5	23.3	0	99.9
2B2002	426772, 276017	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	М	Yes	No	6.8	0.1	53.3	0	51.5
2B2003	427151, 275637	Sublot 2B2, at Broadwell Woods Caravan Park	М	Yes	No	11.2	1.0	269.5	1	99.9
2B1001	430183, 273698	Sublot 2B1, at Brookview Farm, Millburn Grange	М	Yes	No	5.9	0.3	23.1	0	99.9
2AS001	437574, 264500	Sublot 2AS, at Welsh Road Farm	М	Yes	No	0.7	0.1	17.8	0	99.2
OC001	437111, 265242	Springhill Cottages, Offchurch Cutting	М	Yes	No	6.3	0.2	27.9	0	99.9
CUB001	434124, 270273	Sublot 2A2, at Furzon Hill Cottages	М	Yes	No	5.8	0.3	23.5	0	99.9
FOS001	436914, 265643	Fosse Way Compound, on Long Itchington Road	L	Yes	No	5.5	0.4	23.7	0	99.9
FOS002	436429, 266276	Valley Fields, Fosse Way Main	L	Yes	No	5.3	0.2	28.9	0	95.4

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
2B2003	30/10/23: 20:00 - 20:59; 269.5 μg m ⁻³	Occurred outside of BBV construction hours. Therefore, the exceedances are not associated with the HS2 construction works.	N/A

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



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