

Air Quality and Dust Monitoring Monthly Report – March 2025

Warwick District Council



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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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 March 2025.
- 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 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 worksites, as presented in Appendix A, Figures 1 to 3, include:

Sublot 2A2

Fosse Way Main – Long Itchington Road

- Fosse Way Overbridge (OB): Concrete finishing and remedials to abutments and concreting of bearing base plates at Fosse Way OB.
- Offchurch greenway overbridge concrete pour base slab.

Stoneleigh Park– East Lodge

- Piling works on south accommodation.

Cublington Compound Worksite

- River Leam: Earthworks to complete on Abutment (AB) 0 by 4th April 2025. Drainage to start headwall and channel on 7th April 2025.
- Preparation and installation of shutters for Pier 4 concrete pouring is currently underway.
- Installation reinforcement on AB5 to be complete by 18th March 2025.
- Fixing on-going on Pier 4 hammerhead to be complete by 2nd April 2025.
- Coventry Road: Earthworks ongoing on Pier 2.
- Striking Pier 1 shutters and concrete repair and blackjack to be completed by 28th March 2025.
- Rugby Road: Installing drainage to deck to start from 13th March 2025, this is to include the no-fines concrete.
- Plant crossing works to the gates and new alignment, works commenced. Plant crossing opens on 22nd March 2025.

Burton Green Tunnel (Sublot 2B2)

- Earthworks at Area J (Emergency Escape ramp).
- Reinforcement work on Tunnel Mid-Wall (Pour 3 to 13).
- Reinforcement work on U-Box Base Slab (Pour 1 to 4).
- Reinforcement work on Area N Capping beam.
- Reinforcement work on Area J upstand.
- Gabion walls construction south of Cromwell Lane.
- East ramp construction.
- West Parapet excavation and blinding.

Welsh Road Underbridge Satellite Compound (Sublot 2AS)

Offchurch Cutting – Welsh Road Farm

- Formwork and false work installation.
- Earthworks.
- Stockpile movements.
- Housekeeping.
- V-ditch cleaning.
- Strimming.

Offchurch Cutting – Valley Fields

- Installation of permanent drainage pipes and manholes at River Leam Embankment.
- Bulk Earthworks to River Leam Embankment area.
- Dig and replace and soil stabilisation to Ash Beds Cutting.
- Excavation of crane platforms to W129y footbridge.
- Backfill and testing works to new sewer (Severn Trent) north of Hunningham Road.
- Hunningham Road Overbridge beam installation and commence deck edge protection and formwork.
- Hunningham Road – Vegetation clearance.
- Hunningham Road – Duct installation for utility; British Telecoms (BT) diversion along road verge.

A429 Kenilworth Road Overbridge (Sublot 2B1)

- Millburn Grange – South Abutment and Wingwall.
- South Abutment Wall – Remove scaffold.
- South Abutment Wall – External Formwork and Stop end.
- South Abutment Wall – Pre-Pour Inspection.
- South Abutment Wall – Concrete Pour (Mix 13, 47m³).
- South Abutment Wall - Concrete Cure.
- South Abutment Wall – Strike Formwork.
- South Abutment Wall – Post-Pour Inspection.
- Deck Slab – Installation of falsework and formwork.
- Deck Slab – Fix Reinforcement (25 tonne).

- A429 West Tie-In Closure – Installation of catch pit 1425-HD-FC-01.
- A429 West Tie-In Closure - Installation of pipe run S-HD-6.001 (750mm diameter) & backfill to 300mm above crown.
- A429 West Tie-In Closure – Installation of catch pit 1425-HD-CP-02.
- A429 West Tie-In Closure - Installation of 380mm of capping.
- A429 West Tie-In Closure - Installation of subbase fill.

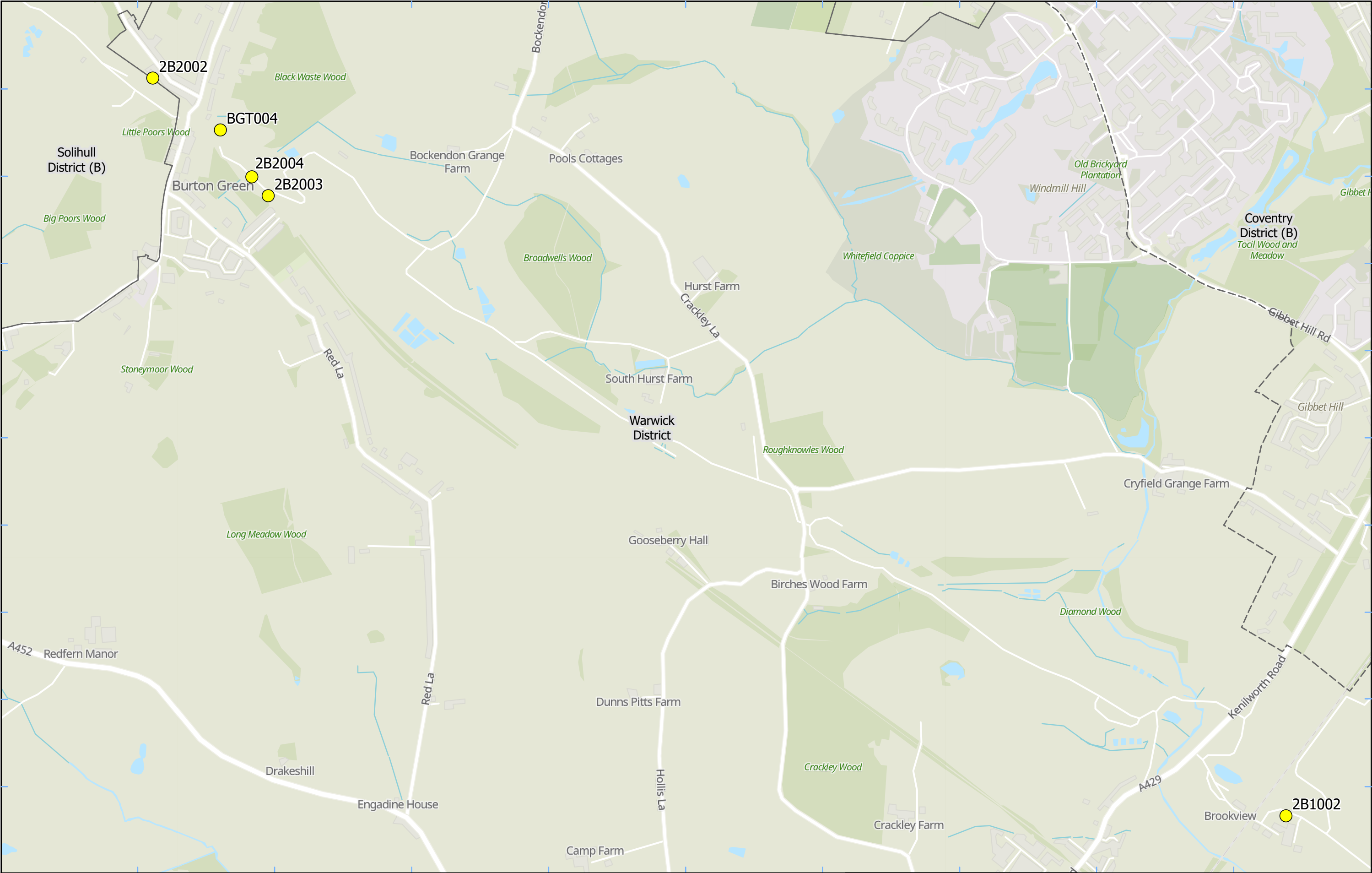
- 1.1.5 Eleven (11) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 2, together with line charts of monthly data from each dust monitor, 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 No (0) dust trigger alerts were recorded during the monitoring period (March 2025).
- 1.1.9 Data capture was below 90% for 2B1002 monitor due to a field calibration done on 10th March 2025, and a fault investigation site visit was done on 9th April 2025.
- 1.1.10 Table 1 provides a summary of the complaint information relating 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 March 2025

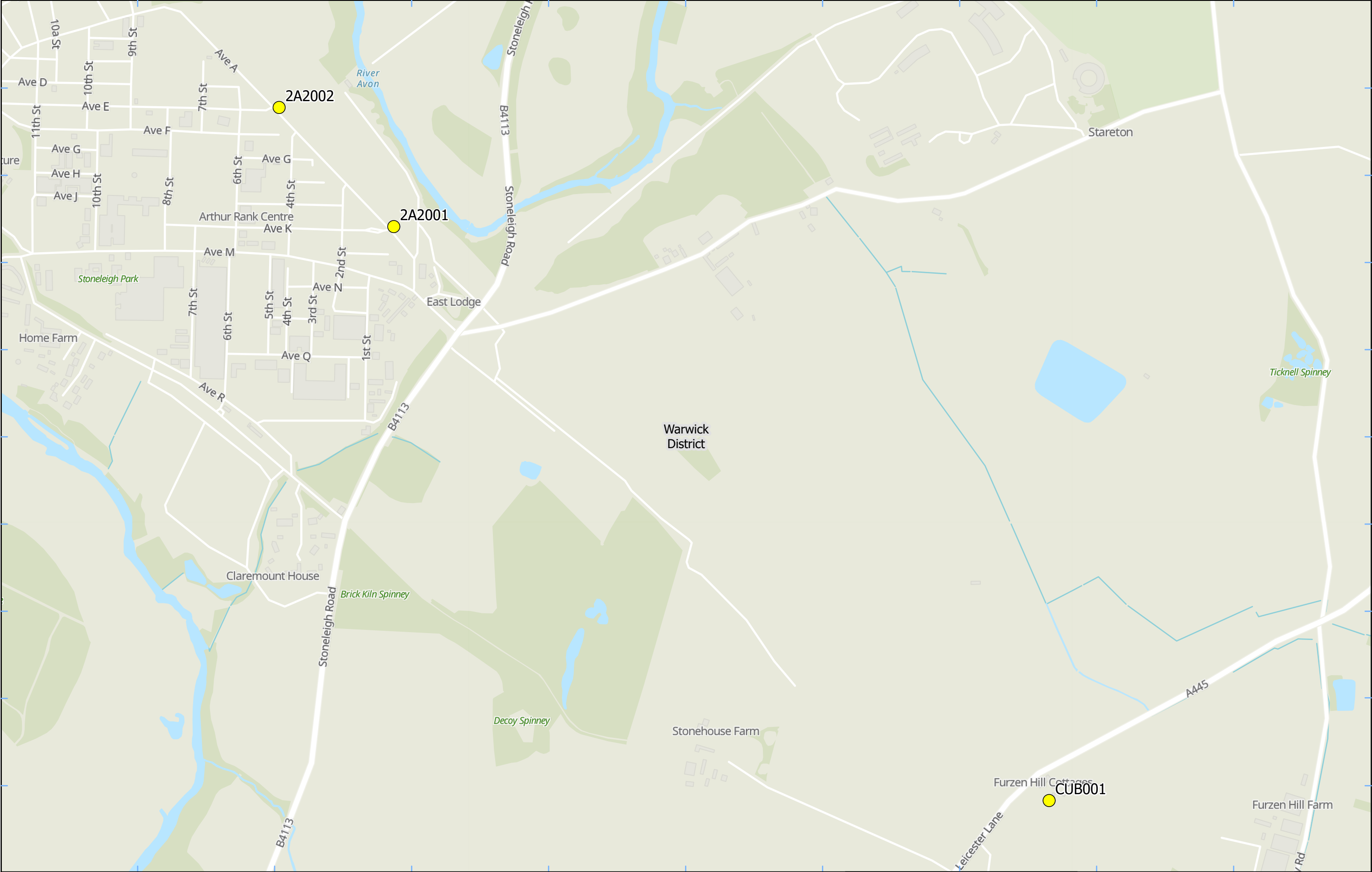
Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46174-C	N/A	Dust in the area.	All mitigation measures are in place to reduce dust in the area, including water suppression. Monitors checked and are below permitted thresholds. Resident has been updated.

Appendix A – Worksites and Monitoring Locations


Figures 1-3: Worksites and Monitoring Locations within WDC




Legend Dust Monitor District Borough Unitary Boundaries <small>Service Layer Credits: GB Topographic: Contains OS data © Crown Copyright and database right 2025 Contains data from OS Zoomstack</small>	Map Number	 <small>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</small> Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA. © Crown copyright and database rights 2025. Ordnance Survey Licence Number 100049190.	 Scale at A3: 1:11,000 Metres Date: 02/04/25
	Map Name		
	Monitoring Locations In WDC (Sheet 1)	Warwick District Council	Doc Number:




Legend

 Dust Monitor

 District Borough Unitary Boundaries

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Map Number
Map Name
Monitoring Locations In WDC (Sheet 2)
Warwick District Council




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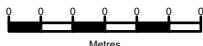
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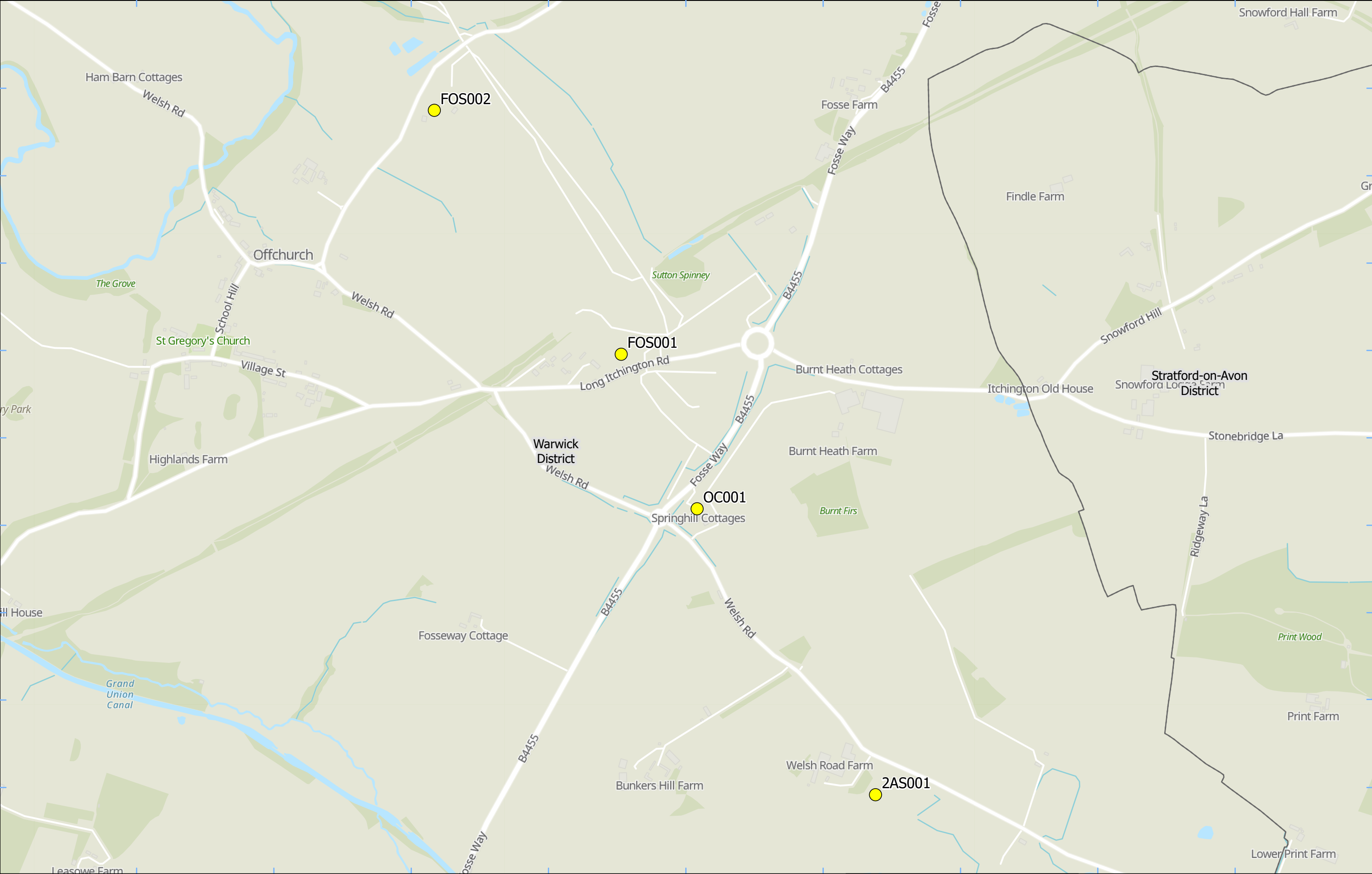


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Metres

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Legend

Dust Monitor

District Borough Unitary Boundaries

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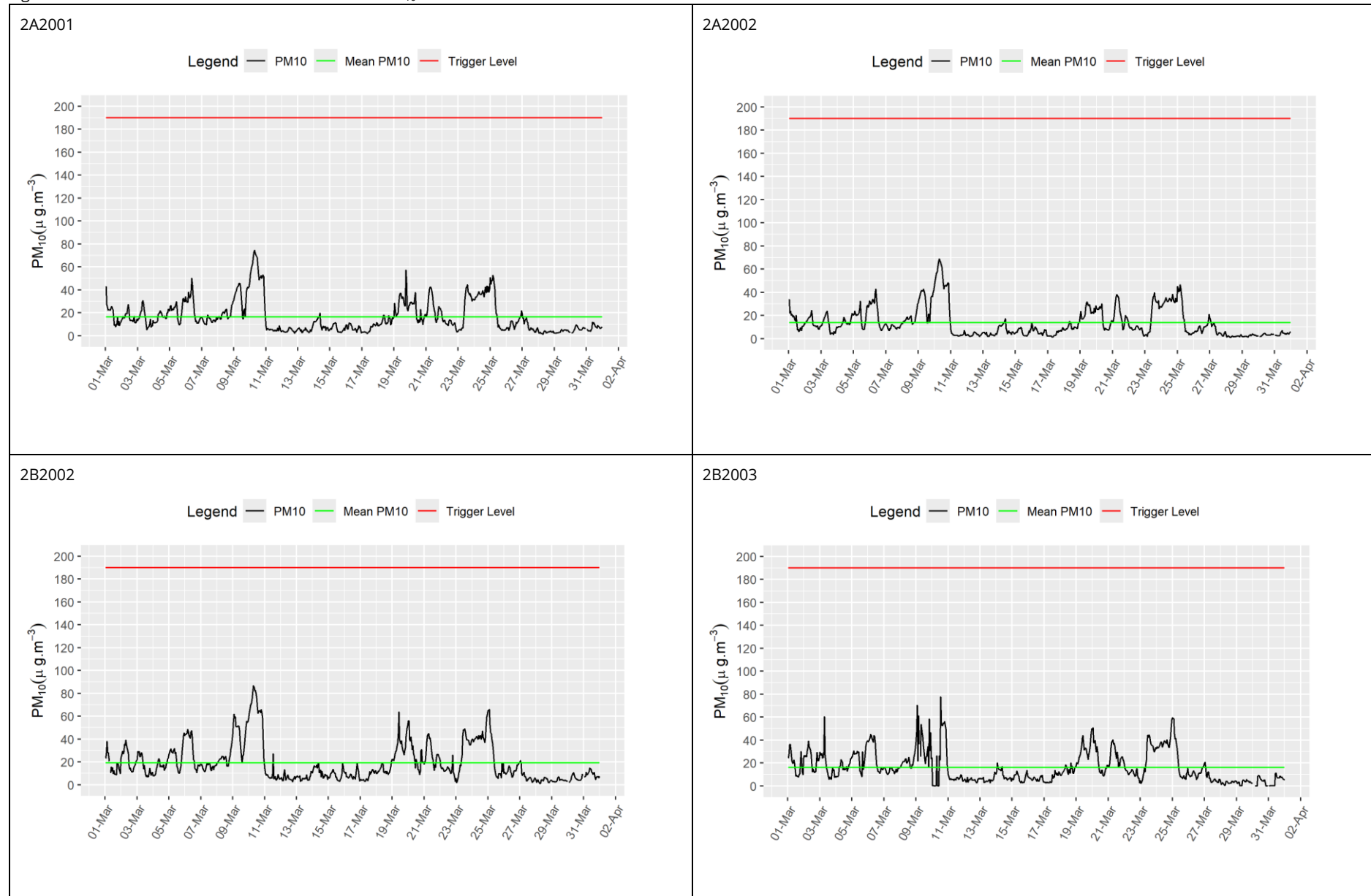
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Appendix B – Dust Monitoring Results

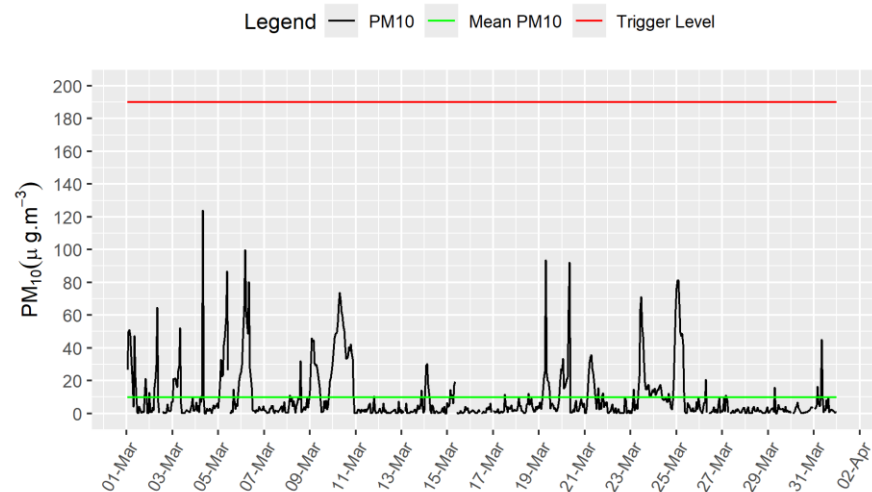
Table 2: Dust Monitoring Locations and Results

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/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1-hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
2A2001	432797, 271427	East Lodge, Stoneleigh Park	M	Yes	No	16.2	1.3	74.5	0	99.7
2A2002	432566, 271671	East Lodge, Stoneleigh Park	M	Yes	No	13.7	0.9	68.9	0	99.7
2B2002	426768, 276023	Sublot 2B2, at nearest sensitive receptor on Hodgetts Lane	M	Yes	No	19.1	1.1	86.8	0	99.6
2B2003	427135, 275649	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	No	16.3	0.1	77.5	0	96.6
2B2004	427083, 275709	Sublot 2B2, at Broadwell Woods Caravan Park	M	Yes	N/A	9.7	0.1	124.0	0	94.5
2B1002	430371, 273678	Sublot 2B1, at Brookview Farm, Millburn Grange	M	Yes	No	24.7	1.6	122.9	0	70.6
2AS001	437593, 264527	Sublot 2AS, at Welsh Road Farm	M	Yes	No	19.0	0.8	84.9	0	91.5
OC001	437205, 265256	Springhill Cottages, Offchurch Cutting	M	Yes	No	16.3	1.0	72.2	0	99.7
CUB002	434097, 270282	Sublot 2A2, at Furzon Hill Cottages	L	Yes	No	2.2	0.1	26.0	0	90.2
FOS001	436912, 265643	Fosse Way Compound, on Long Itchington Road	M	Yes	No	14.5	0.2	81.1	0	99.7
FOS002	436506, 266235	Valley Fields, Fosse Way Main	M	Yes	No	18.3	1.1	83.3	0	99.7
BGT004	426983, 275858	301 Cromwell Lane, Burton Green	M	Yes	No	16.9	1.0	70.9	0	99.7

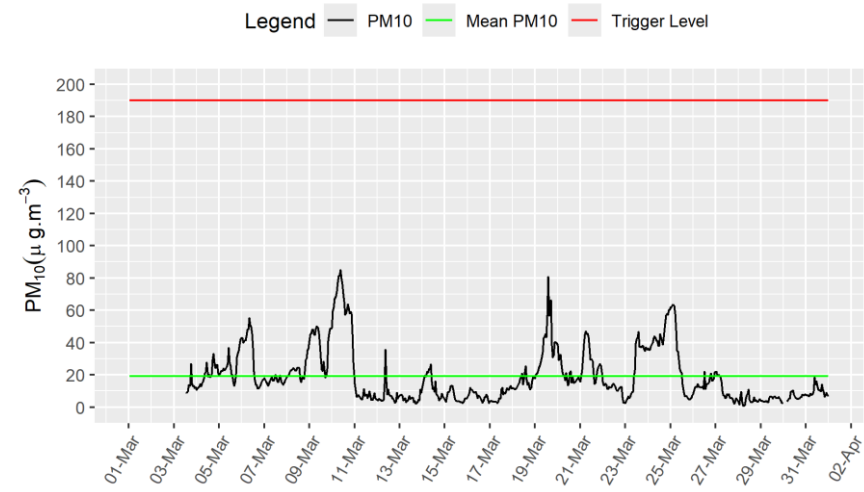
Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors



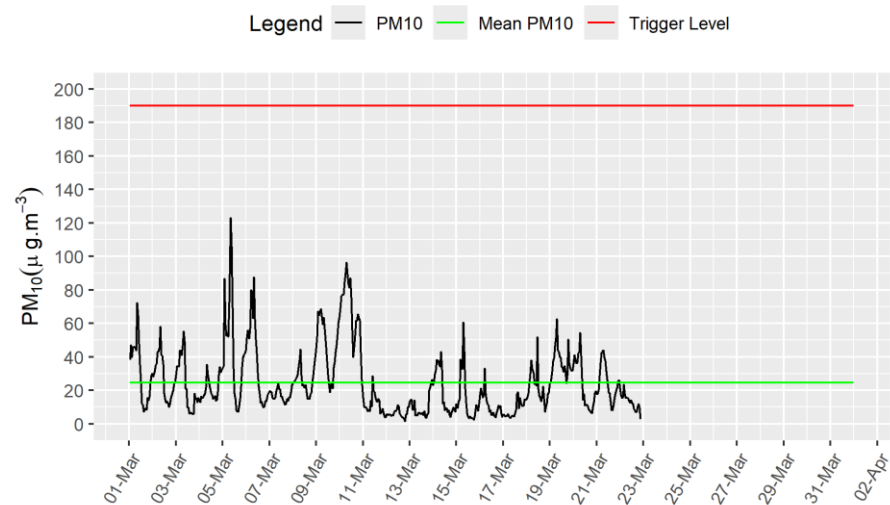
2B2004



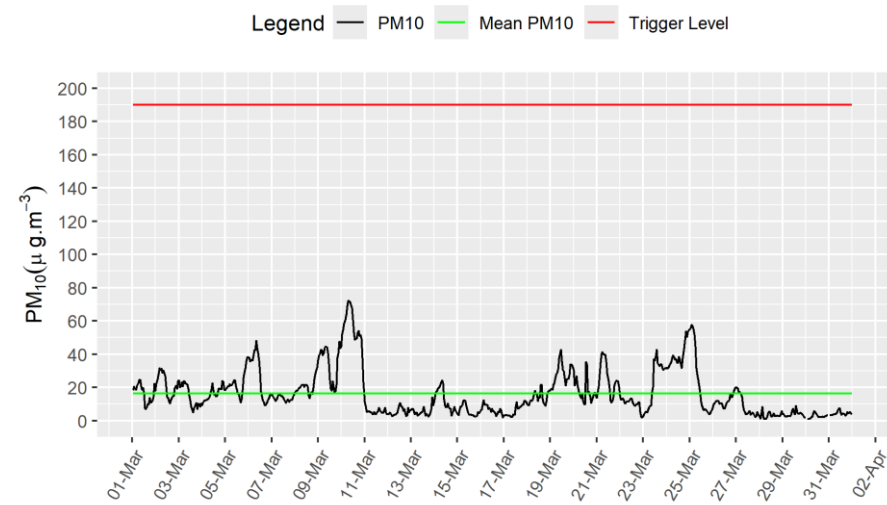
2AS001



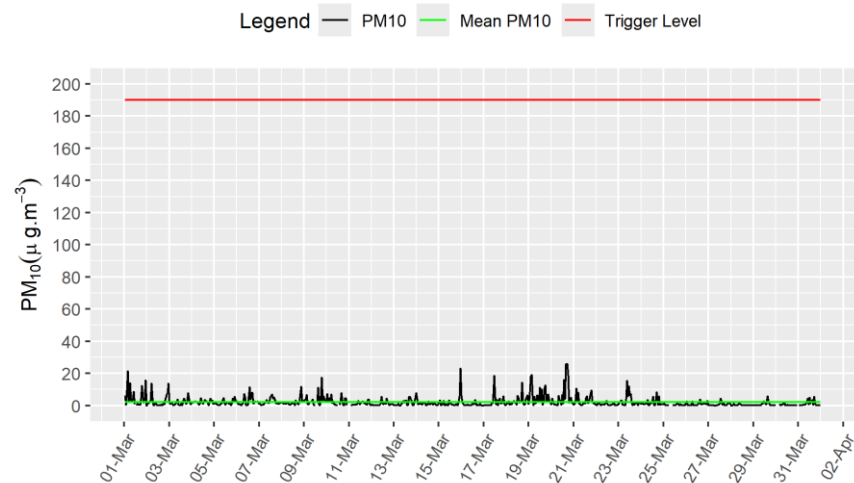
2B1002



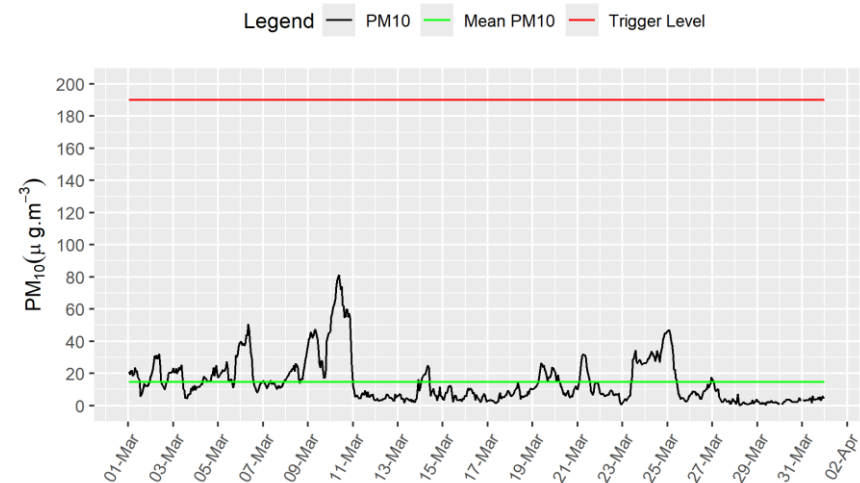
OC001



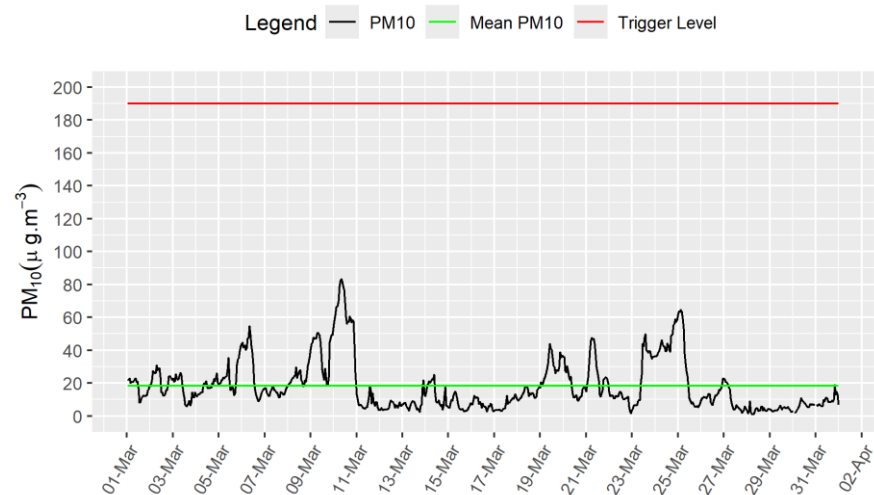
CUB002



FOS001



FOS002



BGT004

