

Air Quality and Dust Monitoring Monthly Report – May 2025

West Northamptonshire 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.

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.

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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 dust monitoring undertaken in the West Northamptonshire District (WNDC) during May 2025.
- 1.1.2 Figure 1 and Figure 2 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 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, Figure 1 and Figure 2, include:

Greatworth To Southam

CW village

- Chipping warden Green tunnel PCC erection and other structures activities
- Green Tunnel maintenance for PCC erection and other structures activities
- Chipping warden green tunnel – Structural backfill
- Chipping Warden earthworks Soil Swap area
- Bulk earthworks
- Site Access Road maintenance
- Utilisation of haulage road for moving material
- Chipping warden batching plant
- Chipping warden surface water sewer
- General maintenance
- Stockpile management
- Vegetation maintenance
- Site Access Road maintenance
- Compound maintenance
- Water management
- Ditch maintenance.

Other works include:

- Chipping Warden Compound
- Footpath SM101 Green Overbridge
- Oxford Canal Culvert
- Edgcote cutting
- Chipping Warden Green Tunnel

- Aston le walls Embankment
- High Furlong Brook Embankment / High furlong Brook Via duct
- Lower Boddington Embankment
- A361 break from highway works Claydon Road Highways
- Boddington Cutting
- Lower Thorpe viaduct
- work on Greatworth Batching Plant - water management
- Greatworth Green Tunnel Bulk Earthworks
- High furlong Brook Embankment - HFBE west side fill, placing and compacting in landscape
- Chipping Warden Green Tunnel South – Green Tunnel Structures.

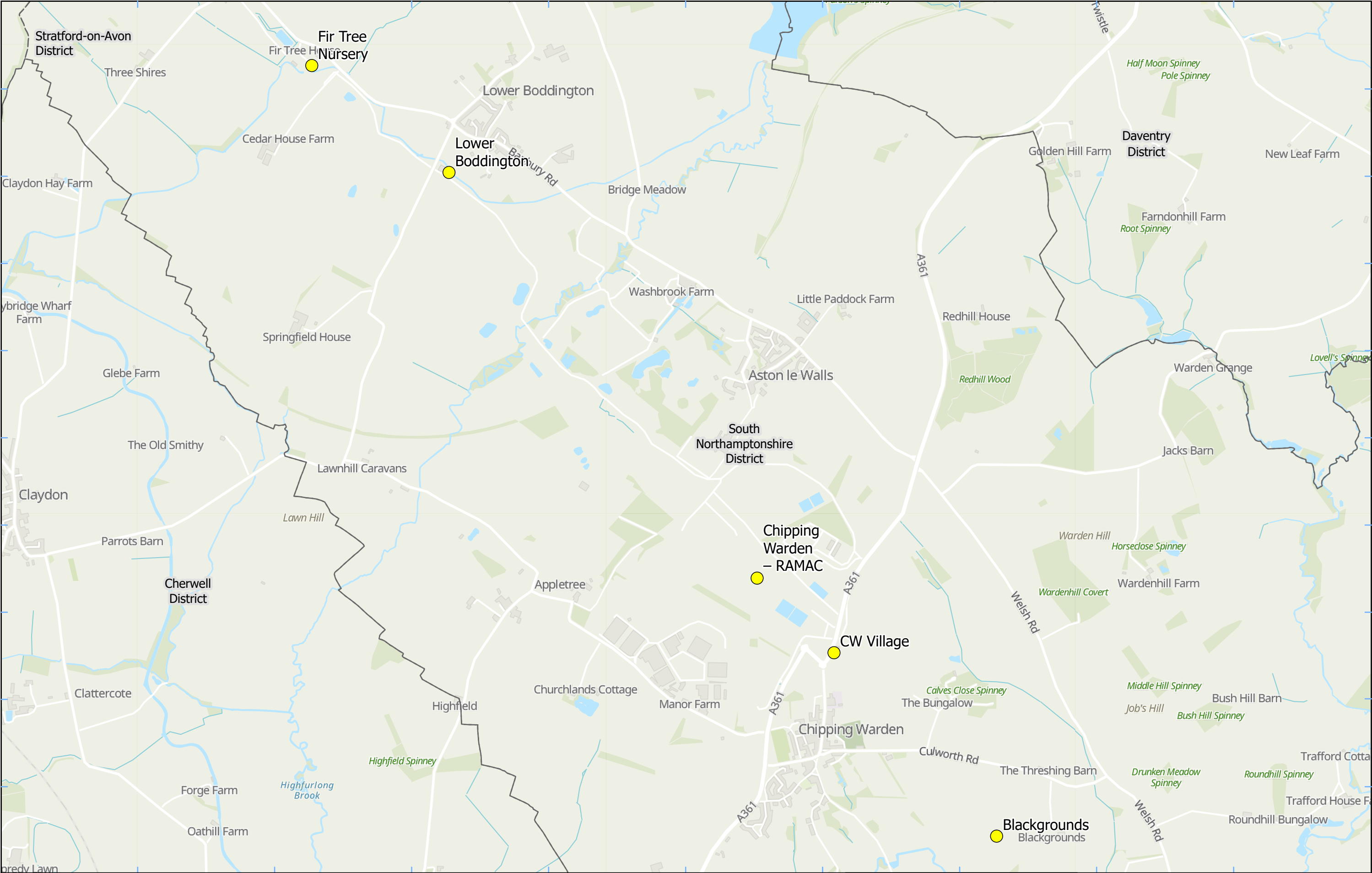
- 1.1.5 Ten (10) dust monitors are installed around these worksites, where works are underway. These sites returned a medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 2, together with line charts of monthly data from each dust monitor, presented in Figure 3. 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 (May 2025).
- 1.1.9 Data capture was below 90% for multiple monitors due to:
- Hall Farm monitor - The dust monitor was retrieved on 28th May 2025 to be used at Greatworth Hall location due to a monitor fault. This has subsequently been replaced in June.
 - Greatworth Hall monitor - Missing data from 15th to 28th May 2025 was due to monitor fault. A replacement was installed on 28th May 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 May 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-122464-E-C	N/A	Large amounts of dust on vehicles.	Site teams checked the dust monitors immediately and no exceedances reported. All mitigation measures are in place. Resident has been informed.

Appendix A –Worksites and Monitoring Locations

Figures 1 and 2: Worksites and Monitoring Locations within WNDC



Legend

 Dust Monitor

 District Borough Unitary Boundaries

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Map Number

Map Name

**Monitoring Locations
In WNDC (Sheet 1)**

**West Northamptonshire District
Council**

hs2

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Birmingham B4 6GA.

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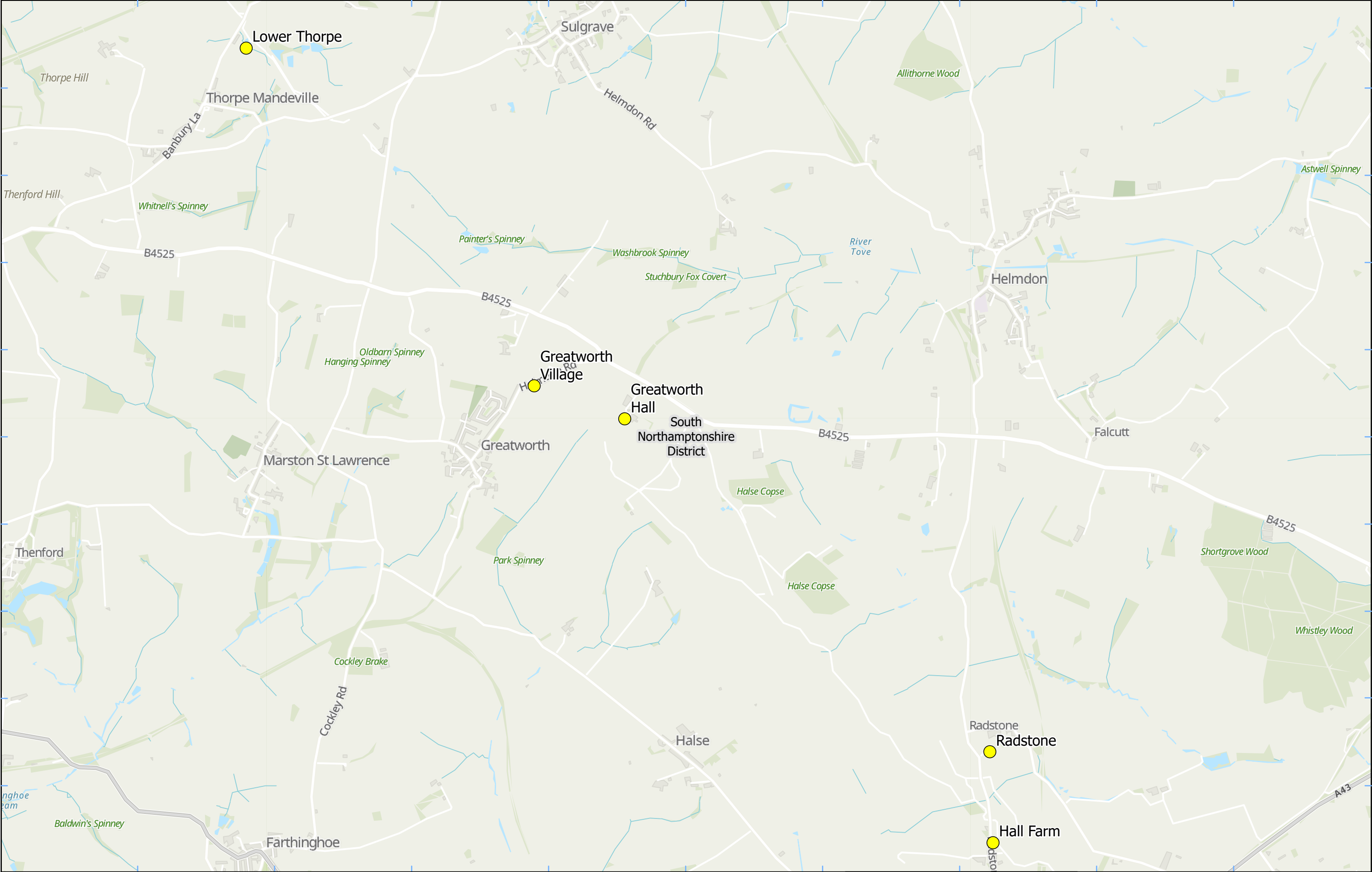
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Scale at A3: 1:18,000


Metres

Date: 20/06/24



Legend <div> Dust Monitor</div> <div> District Borough Unitary Boundaries</div>	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>
	Map Name	
	Monitoring Locations In WNDC (Sheet 2)	West Northamptonshire District Council

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Date: 20/06/24

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	1-hour data capture (%)
Chipping Warden – RAMAC	449600, 249755	Chipping Warden, West Northamptonshire	M	Yes	Yes	8.5	1.0	36.0	0	100.0
CW Village	450000, 249367	Chipping Warden, West Northamptonshire	M	Yes	Yes	7.8	1.0	113.0	0	100.0
Lower Boddington	447997, 251865	Lower Boddington, West Northamptonshire	M	Yes	Yes	7.1	1.0	39.0	0	100.0
Fir Tree Nursery	447283, 252421	Fir Tree Nursery, West Northamptonshire	M	Yes	Yes	6.4	1.0	39.0	0	100.0
Radstone	458712, 240454	Radstone Road, Brackley, West Northamptonshire	M	Yes	Yes	20.8	2.0	118.0	0	91.5
Hall Farm	458734, 239823	Hall Farm, Radstone Road	M	Yes	Yes	8.3	1.0	34.0	0	88.8
Greatworth Village	455551, 242992	Greatworth Village, Helmdon Road,	M	Yes	Yes	6.5	1.0	34.0	0	99.3
Lower Thorpe	453553, 245334	Banbury Lane, Lower Thorpe	M	Yes	Yes	6.9	1.0	33.0	0	100.0
Greatworth Hall	456179, 242763	Greatworth Hall, Greatworth	M	Yes	Yes	5.7	1.0	32.0	0	55.6
Blackgrounds	450846, 248413	Blackgrounds, West Northamptonshire	M	Yes	Yes	6.8	1.0	34.0	0	100.0

Figure 3: Continuous dust 1-hour mean indicative PM₁₀ concentration for all monitors



