

Air Quality and Dust Monitoring Monthly Report – August 2024

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.

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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 dust monitoring undertaken in the West Northamptonshire District (WNDC) during August 2024.
- 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:

Twyford to Greatworth

Radstone and Hall Farm

- Stockpile management
- Bulk Excavation
- Site Access Road/ Haul Road use and maintenance
- Drainage
- Works associated with the permanent diversion of Radstone Road.
- Works associated with the temporary diversion of Radstone Road.
- Construction of Deck at Radstone Road Overbridge.

Greatworth Hall

- Stockpile management
- Utilisation & maintenance of Site Access Road (SAR) and Haul Road.
- Crushing and screening
- Excavate and replace at Greatworth South Cutting
- Pressure Relief wells installed and dewatered at Greatworth South Cutting
- Main excavation works at Greatworth South Cutting
- Drainage works
- Permanent excavation at AN37. Abutments and approach structures construction
- Abutments and Piers pile caps construction at AN14.

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
- Plant maintenance

Lower Boddington

- Topsoil stripping
- Claydon road overbridge
- Nursery site feeder canal culvert
- Stockpile management
- Site Access Road maintenance
- Utilisation of haulage road for moving material
- Drainage and temporary ponds
- Vegetation maintenance
- Highfurlong brook viaduct
- Bulk excavation – cutting
- Claydon road overbridge
- Claydon road highways
- Lower Boddington Landscape fill
- Water management (Checking pumps)
- Ditch maintenance

Fir Tree Nursery

- X Topsoil stripping
- Stockpile management
- Site Access Road maintenance
- Utilisation of haulage road for moving material
- Drainage and temporary ponds
- Vegetation maintenance
- Site access road maintenance
- Water management
- Ditch maintenance

- Nursery site feeder canal
- Boddington highways

Greatworth Village

- Site Access Road maintenance
- Utilisation of haulage road for moving material
- Drainage and temporary ponds
- Bulk earthworks
- Structures (Lower Thorpe Viaduct)
- AG09 and AG10 overbridges
- Permanent culverts
- Greatworth Green Tunnel works

Lower Thorpe

- Site Access Road maintenance
- Utilisation of haulage road for moving material
- Drainage and temporary ponds
- Bulk earthworks
- Structures (Lower Thorpe Viaduct)
- AG09 and AG10 overbridges
- Culworth Grounds Overbridge
- HDD works (Spiders web)
- Permanent culverts

Backgrounds

- Site Access Road maintenance
- Utilisation of haulage road for moving material
- Drainage and temporary ponds
- Bulk earthworks
- Structures
- Permanent culverts

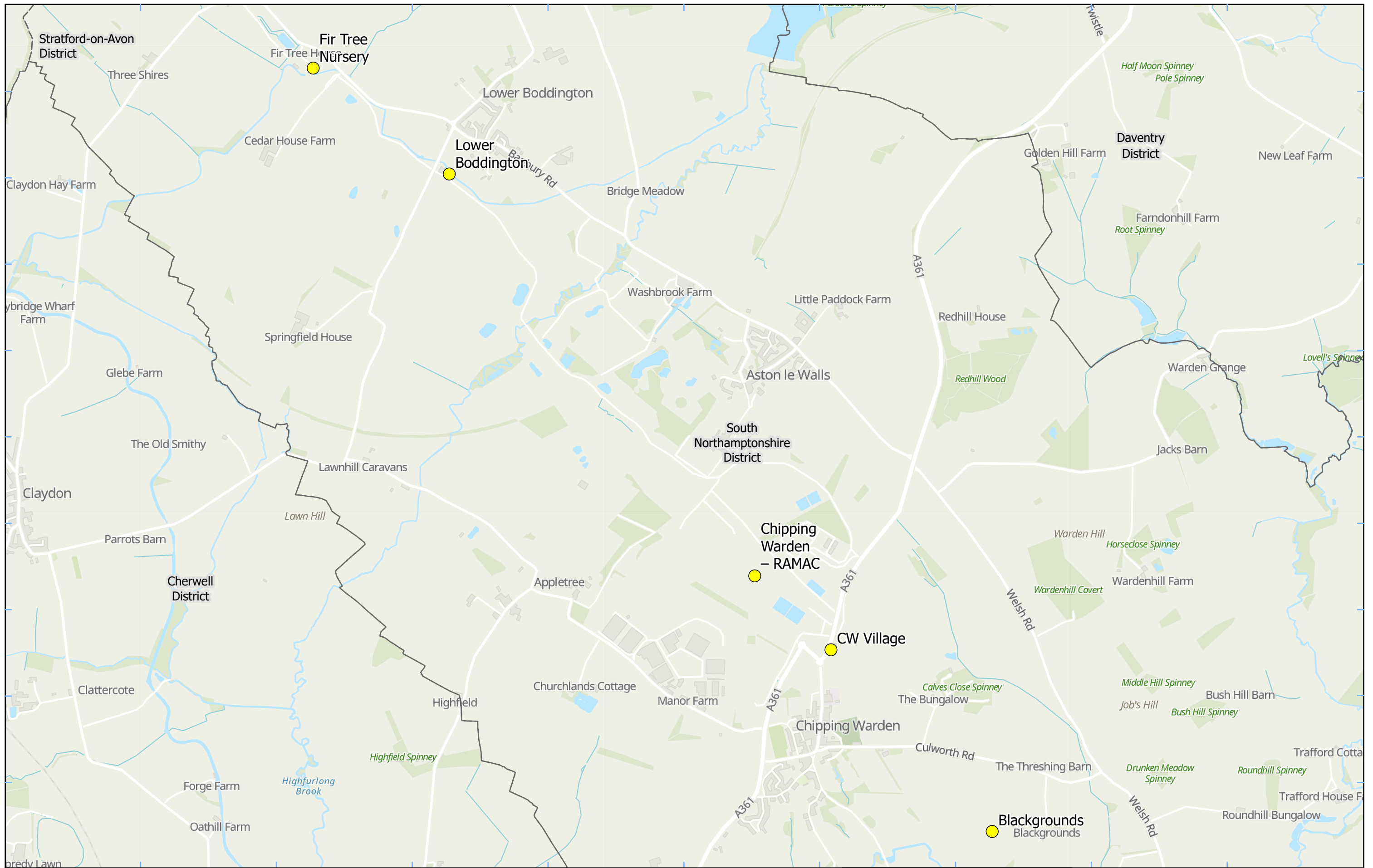
1.1.5 Ten (10) dust monitors are installed around these worksites, where works are underway. These sites returned a medium dust risk rating.

1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, 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 (August 2024).
- 1.1.9 There were no (0) complaints received during the reporting period (August 2024).

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**

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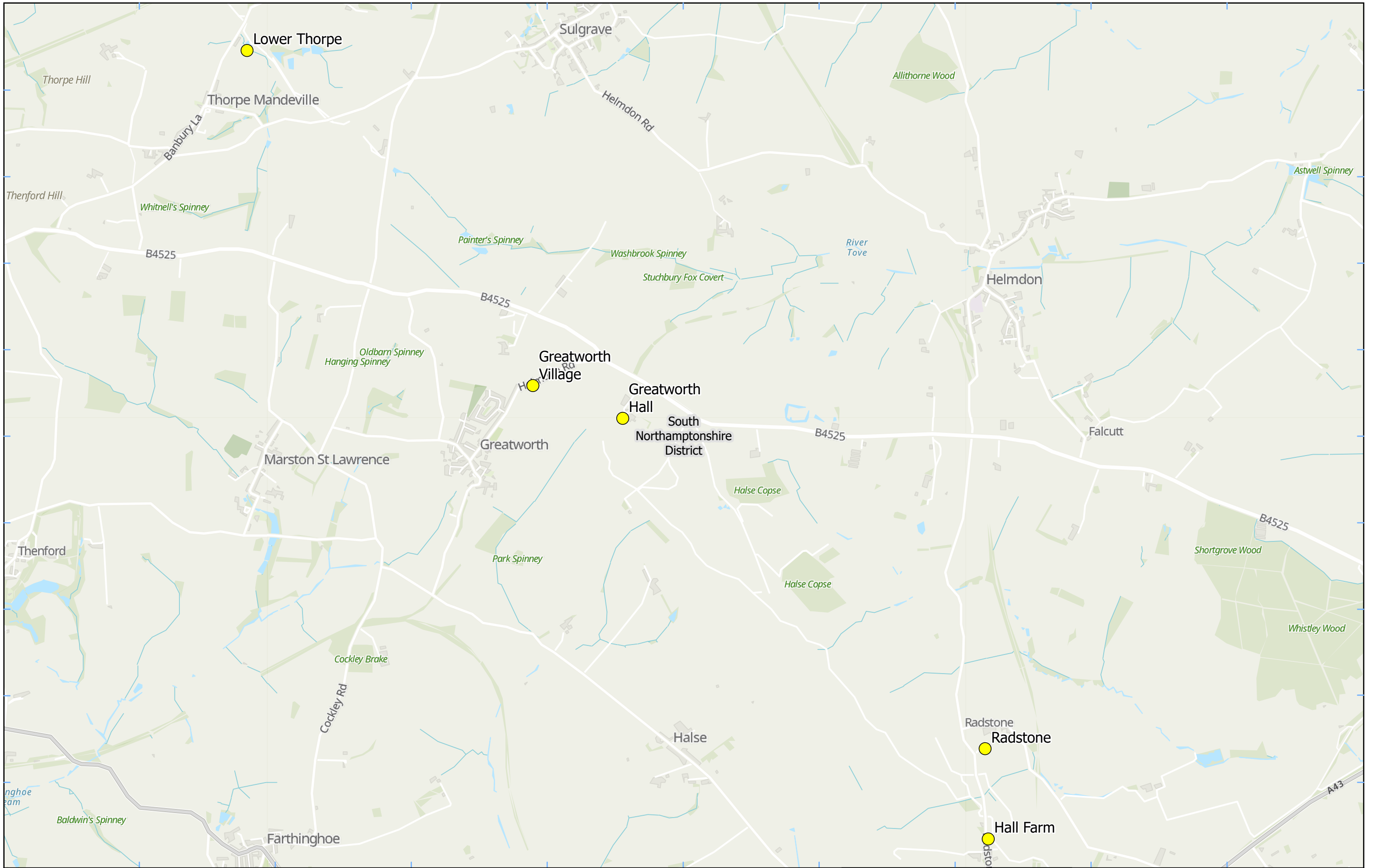
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Legend

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

Map Name
**Monitoring Locations
In WNDC (Sheet 2)**

**West Northamptonshire District
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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/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	8.1	1.0	52.0	0	100.0
CW Village	450000, 249367	Chipping Warden, West Northamptonshire	M	Yes	Yes	7.5	1.0	50.0	0	100.0
Lower Boddington	447997, 251865	Lower Boddington, West Northamptonshire	M	Yes	Yes	8.6	1.0	55.0	0	100.0
Fir Tree Nursery	447283, 252421	Fir Tree Nursery, West Northamptonshire	M	Yes	Yes	7.6	1.0	49.0	0	100.0
Radstone	458712, 240454	Radstone Road, Brackley, West Northamptonshire	M	Yes	Yes	7.5	1.0	50.0	0	99.6
Hall Farm	458734, 239823	Hall Farm, Radstone Road	M	Yes	Yes	8.4	1.0	53.0	0	100.0
Greatworth Village	455551, 242992	Greatworth Village, Helmdon Road,	M	Yes	Yes	7.1	1.0	49.0	0	100.0
Lower Thorpe	453553, 245334	Banbury Lane, Lower Thorpe	M	Yes	Yes	7.3	1.0	51.0	0	100.0
Greatworth Hall	456179, 242763	Greatworth Hall, Greatworth	M	Yes	Yes	7.4	1.0	53.0	0	100.0
Blackgrounds	450846, 248413	Blackgrounds, West Northamptonshire	M	Yes	Yes	7.4	1.0	50.0	0	99.6

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



