

## Air Quality and Dust Monitoring Monthly Report – September 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.

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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 September 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](https://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

- Bulk Excavation
- Stockpile Management
- BSC Topsoil laying on batters
- 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.
- AX15 wingwalls construction
- AX18 maintenance stairs construction and highways works
- Brackley Culvert backfilling and waterproofing.

### Greatworth Hall

- Crushing and screening
- Bulk Excavation
- Stockpile Management
- Site Access Road/ Haul Road use and maintenance
- Excavate and replace at Greatworth South Cutting
- Main excavation works at Greatworth South Cutting
- Drainage works
- AN37 Approach parapets
- AN14 maintenance stairs and platforms construction
- Stockpile management.

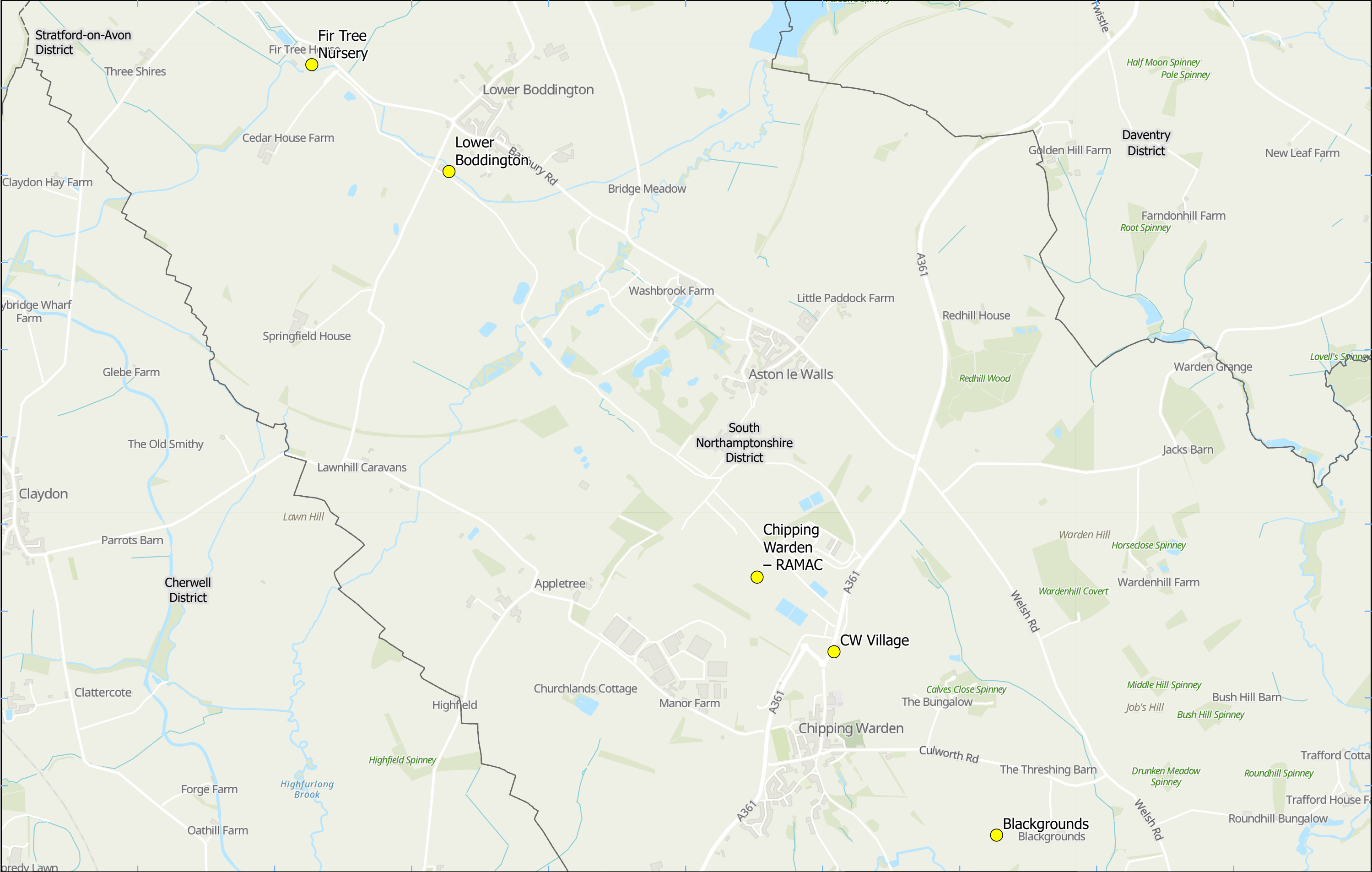
### **Greatworth To Southam**

- Earthworks
- Highways
- A361 road realignment
- Boddington highways
- Greatworth Tee
- Utilities
- A361 weekend works on newly laid gas main connections.

- 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 PM<sub>10</sub> concentrations of 190 µg/m<sup>3</sup>, 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 There were no (0) complaints received during the reporting period (September 2025).

# Appendix A –Worksites and Monitoring Locations

Figures 1 and 2: Worksites and Monitoring Locations within WND



**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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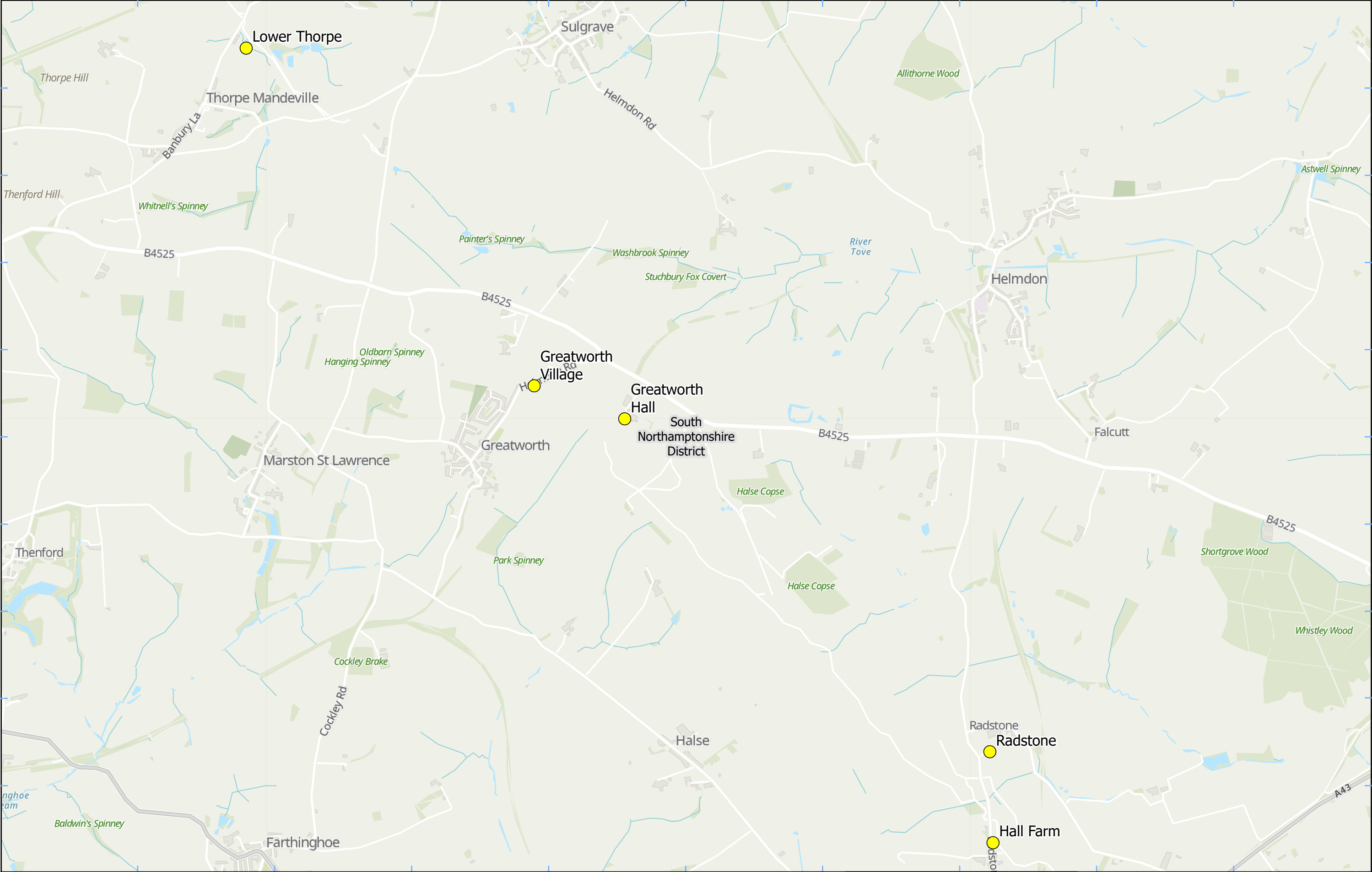
**Doc Number:**



**Scale at A3: 1:18,000**

  
Metres

**Date: 20/06/24**



**Legend**

 Dust Monitor

 District Borough Unitary Boundaries

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Contains data from OS Zoomstack

Map Number

Map Name

Monitoring Locations  
In WNDC (Sheet 2)

West Northamptonshire District  
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Metres

Date: 20/06/24



## 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 <sub>10</sub> concentration (µg/m <sup>3</sup> ) | Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> ) | Maximum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> ) | Number of 1-hour periods exceeding trigger level of 190 µg/m <sup>3</sup> | 1-hour data capture (%) |
|-------------------------|-------------------|------------------------------------------------|---------------------------|--------------------------------------|---------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------|
| Chipping Warden – RAMAC | 449600, 249755    | Chipping Warden, West Northamptonshire         | M                         | Yes                                  | Yes                                         | 4.4                                                             | 1.0                                                                | 15.0                                                               | 0                                                                         | 98.9                    |
| CW Village              | 450000, 249367    | Chipping Warden, West Northamptonshire         | M                         | Yes                                  | Yes                                         | 5.0                                                             | 1.0                                                                | 27.0                                                               | 0                                                                         | 99.9                    |
| Lower Boddington        | 447997, 251865    | Lower Boddington, West Northamptonshire        | M                         | Yes                                  | Yes                                         | 5.0                                                             | 1.0                                                                | 82.0                                                               | 0                                                                         | 99.7                    |
| Fir Tree Nursery        | 447283, 252421    | Fir Tree Nursery, West Northamptonshire        | M                         | Yes                                  | Yes                                         | 4.5                                                             | 1.0                                                                | 15.0                                                               | 0                                                                         | 98.8                    |
| Radstone                | 458712, 240454    | Radstone Road, Brackley, West Northamptonshire | M                         | Yes                                  | Yes                                         | 22.5                                                            | 1.0                                                                | 3274.0                                                             | 8                                                                         | 100.0                   |
| Greatworth Village      | 455551, 242992    | Greatworth Village, Helmdon Road,              | M                         | Yes                                  | Yes                                         | 4.1                                                             | 1.0                                                                | 16.0                                                               | 0                                                                         | 98.6                    |
| Lower Thorpe            | 453553, 245334    | Banbury Lane, Lower Thorpe                     | M                         | Yes                                  | Yes                                         | 4.3                                                             | 1.0                                                                | 15.0                                                               | 0                                                                         | 99.6                    |
| Greatworth Hall         | 456179, 242763    | Greatworth Hall, Greatworth                    | M                         | Yes                                  | Yes                                         | 4.4                                                             | 1.0                                                                | 16.0                                                               | 0                                                                         | 99.0                    |
| Blackgrounds            | 450846, 248413    | Blackgrounds, West Northamptonshire            | M                         | Yes                                  | Yes                                         | 4.3                                                             | 1.0                                                                | 51.0                                                               | 0                                                                         | 99.6                    |



Table 2: Summary of exceedances during period (September 2025)

| Monitoring Site ID | Period of trigger alert & Concentration recorded                                                                                                                                                                                                                                                                                                                                                                            | Investigation   | Outcomes / Resolution / Remedial measures implemented                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------|
| Radstone           | <p>06/09/2025<br/>04:01 – 05:00; 332 µg/m<sup>3</sup><br/>05:01 – 06:00; 442 µg/m<sup>3</sup></p> <p>09/09/2025<br/>05:01 – 06:00; 3274 µg/m<sup>3</sup></p> <p>27/09/2025<br/>04:01 – 05:00; 453 µg/m<sup>3</sup><br/>05:01 – 06:00; 1535 µg/m<sup>3</sup></p> <p>29/09/2025<br/>04:01 – 05:00; 221 µg/m<sup>3</sup></p> <p>30/09/2025<br/>03:01 – 04:00; 909 µg/m<sup>3</sup><br/>04:01 – 05:00; 279 µg/m<sup>3</sup></p> | Erroneous data. | Disregarded. Checking for blockages and changing out dust receptor 30/09/2025. None found on original unit. |

Figure 3: Continuous dust 1-hour mean indicative PM<sub>10</sub> concentration for all monitors



