

## Air Quality and Dust Monitoring Monthly Report – April 2022

West Northamptonshire District Council



## Department for Transport

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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 Council (WNDC) during April 2022.
- 1.1.2 Figures 1 and 2 in Appendix A present the current worksites together with the dust monitoring locations for April 2022.
- 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](http://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 and 2, include:

## **Twyford to Greatworth (T2G)**

- Stone deliveries;
- A43 Compound development;
- Drainage; and
- Radstone road improvement.

## **Radstone worksite (T2G)**

- Topsoil stripping;
- Compound maintenance;
- Bulk excavation;
- Slab crossing;
- Drainage, ponds; and
- Access road.

## **Greatworth to Southam (G2S)**

- Excavation for chipping warden green tunnel;
- Topsoil stripping and material movement;
- Established of site access road;
- Chipping Warden Compound development; and
- A361 Temporary Overbridge material movement preparation works.

## **Chipping Warden Village**

- Topsoil stripping and material movement;

- Chipping Warden Compound development;
- Established of site access road;
- A361 Temporary Overbridge material movement preparation works; and
- Excavation for chipping warden green tunnel.

### **Lower Boddington**

- Topsoil stripping and material movement; and
- Water Management.

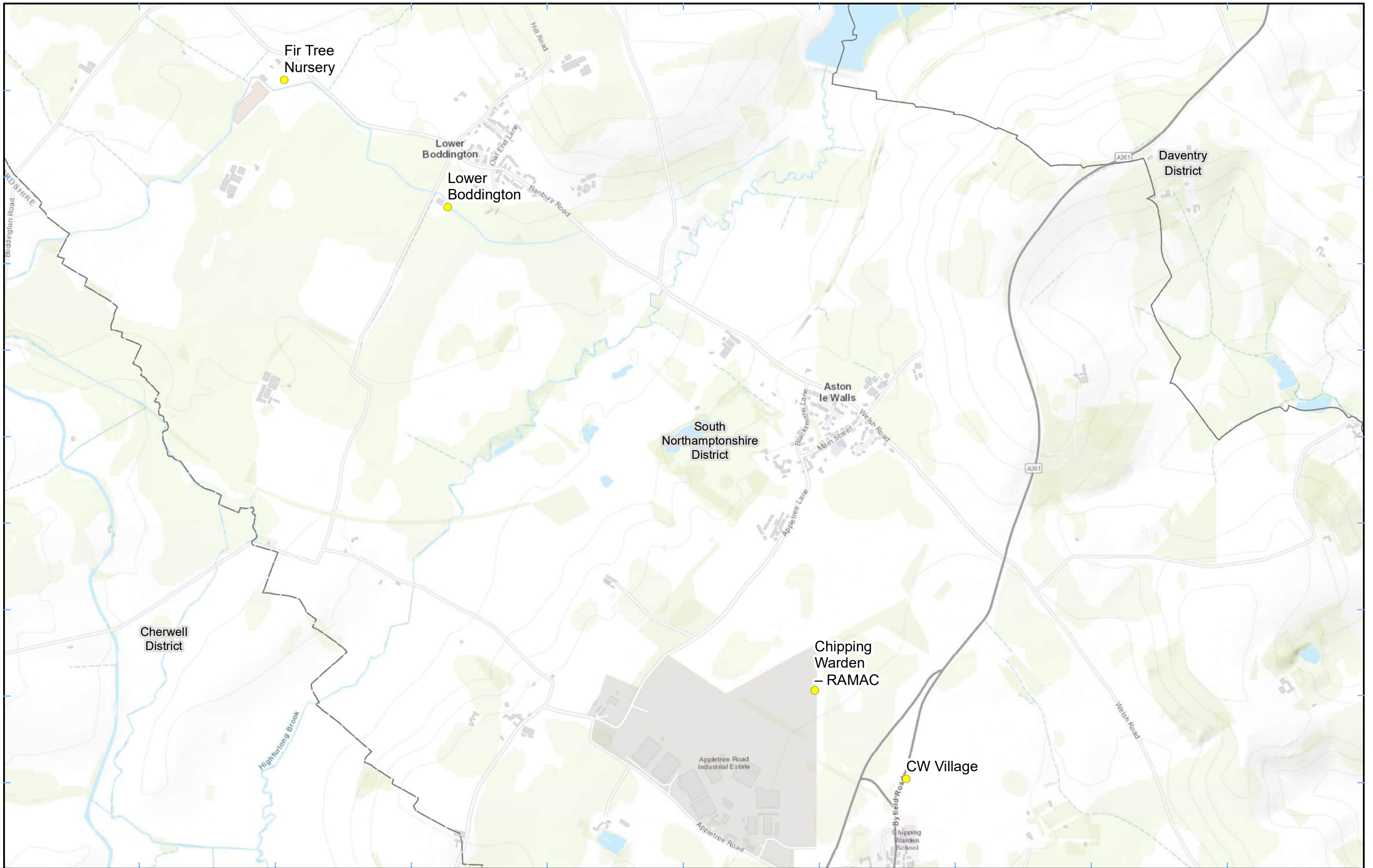
### **Fir Tree Nursery worksite**

- Boddington Canal Feeder realignment.

- 1.1.5 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from the dust monitors 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.
- 1.1.6 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.
- 1.1.7 Four (4) dust risk monitors are installed around worksites, where works are underway. These sites returned a medium dust risk rating.
- 1.1.8 Data capture was below 90% for multiple monitors in April 2022 due to the station battery voltage dropping below the cut-off threshold (11.5V).
- 1.1.9 No (0) dust trigger alerts were recorded during the monitoring period (April 2022).
- 1.1.10 No (0) complaints were received during this reporting period.

# Appendix A –Monitoring Locations

Figure 1 and 2: Worksite and monitoring locations during April 2022 within the WNDC



**Legend**  
 ● Dust Monitor  
 □ District Borough Unitary Boundaries

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Map Number  
 Map Name  
**Monitoring Locations  
 In WNDC (Sheet 1)**  
 West Northamptonshire Council

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Scale at A3: 1:15,000

0 150 300 450 600  
 Metres

**Doc Number:**  
**Date: 26/04/22**



**Legend**

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number


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Map Name

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

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**Scale at A3: 1:3,000**



Metres

**Date: 26/04/22**

## Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and April 2022 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	8.0	1.0	28.0	0	56.8
CW Village	450000, 249367	Chipping Warden, West Northamptonshire	M	Yes	Yes	8.4	1.0	61.0	0	43.2
Lower Boddington	447997, 251865	Lower Boddington, West Northamptonshire	M	Yes	Yes	8.4	1.0	63.0	0	99.4
A43	459609, 238944	A43, Brackley, West Northamptonshire	M	Yes	Yes	7.0	1.0	48.0	0	100.0
Fir Tree Nursery	447283, 252421	Fire Tree Nursery, West Northamptonshire	M	Yes	Yes	7.8	1.0	55.0	0	99.7
Radstone	458712, 240454	Radstone Road, Brackley, West Northamptonshire	M	Yes	Yes	9.6	2.0	58.0	0	60.8



Figure 6: Continuous dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors

