

## **Air Quality and Dust Monitoring Monthly Report – February 2019**

**Three Rivers 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 Osborne 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 Three Rivers District Council (TRDC) during February 2019.
- 1.1.2 Figure 1 and Figure 2 in Appendix A indicate the current worksites together with dust monitoring locations for February 2019.
- 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 phase of works commenced within TRDC during July 2017, and is expected to be completed in May 2019. The current worksites, as presented in Appendix A, Figure 1, include:
- Construction of a new entry slip onto the clockwise M25, from Shire Lane to include: associated drainage, utilities, lighting, signage and road markings to full motorway standards.
  - Construction of a new exit slip from the anti-clockwise M25, connecting to Chalfont Lane to include: associated drainage, utilities, lighting, signage and road markings to full motorway standards.
  - Construction of a Chalfont Lane diversion road between Shire Lane and Hornhill Road to include a temporary road to Local Authority Highway standards, a junction with Shire Lane and Hornhill Lane and associated signage on local roads.
  - Construction of a new junction for access to Orchards caravan park and footpath CSP/16/1.
  - Widening of Chalfont Lane between the M25 exit slip and Denham Way to include: a bell mouth access to a future Scottish and Southern Energy (SSE) sub-station, accesses to the future High Speed 2 (HS2) construction compound south of Chalfont Lane and construction of BT and City Fibre ducts and chamber diversions along Chalfont Lane.
  - Third party works completed diversions of the SSEN 132 kv line and cabling works into the main grid substation.
  - Platform construction is now completed for the new grid substation in preparation for the permanent construction works.
  - Fusion main site compound facilities south of Chalfont Lane has been established.
- 1.1.5 One (1) dust monitor is installed around the worksite, where construction works are underway. This site was classified with a medium dust risk rating.

- 1.1.6 The dust monitoring location, line graph and results are presented in Appendix B, Table 1 and Figure 3.
- 1.1.7 Ten (10) exceedances of the dust trigger level were recorded during the February 2019 monitoring period, all of which were outside of site working hours. Osborne's construction works remain focussed along Chalfont Lane in February, in the vicinity of the main receptors and the monitor (near Sunnyhill Road). Exceedances are presented in Appendix B, Tables 1 and 2. All other results were in line with expected ranges.
- 1.1.8 There were no complaints received, relating to air quality, during this monitoring period.

# Appendix A – Worksites and Monitoring Locations

Figure 1: Worksite locations during February 2019 in TRDC

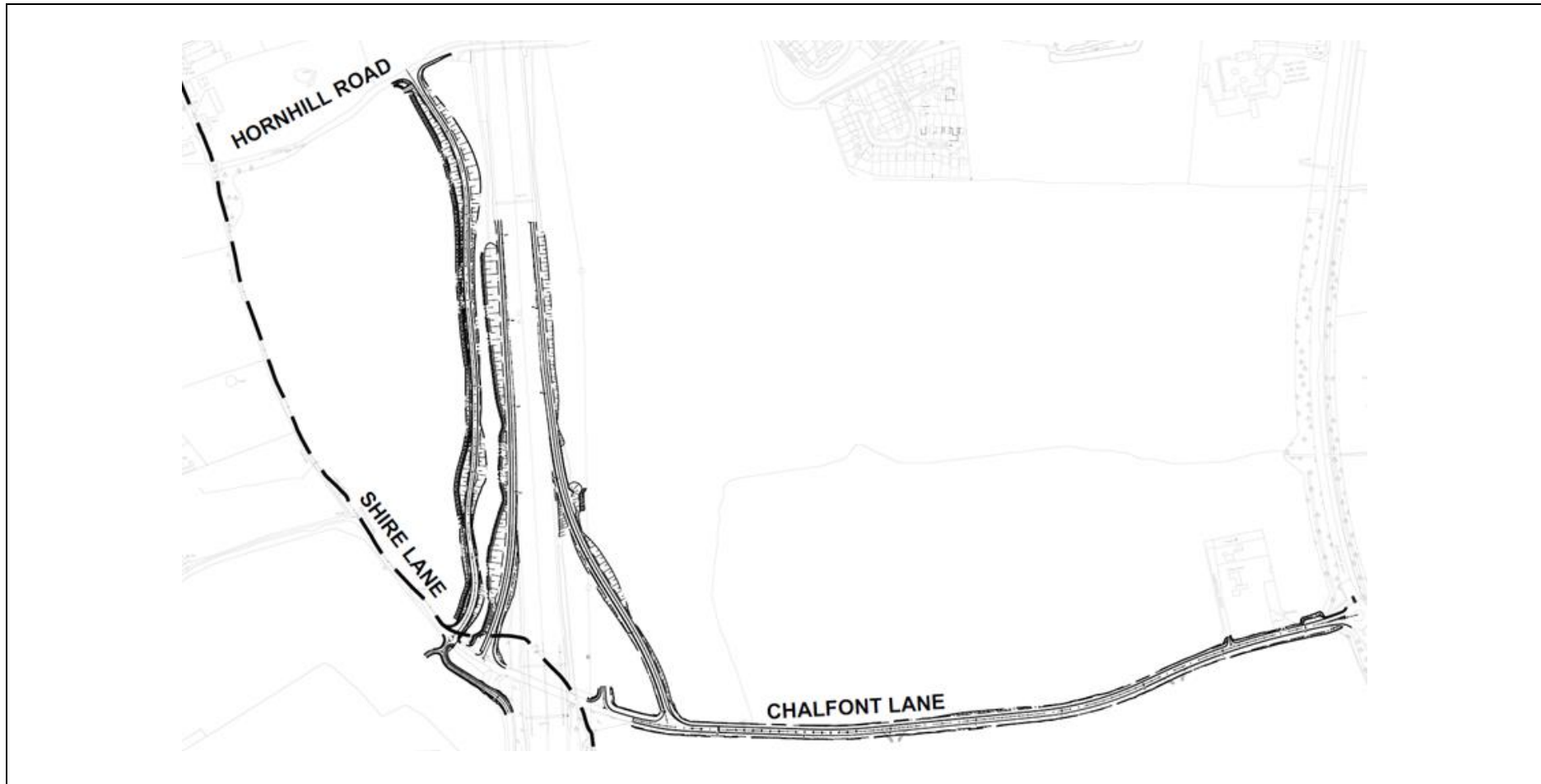


Figure Name

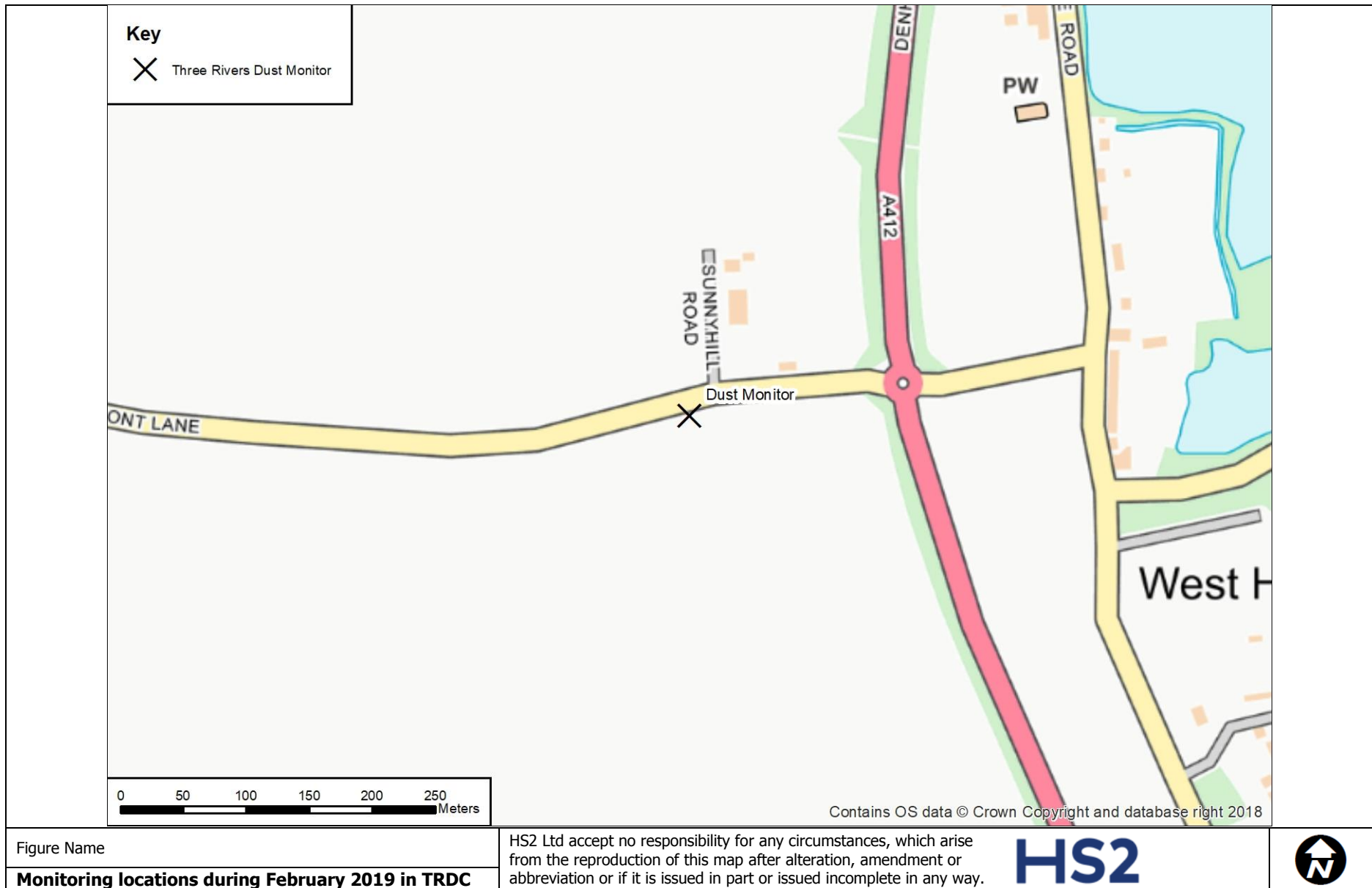
**Worksite locations during February 2019 in TRDC**

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Figure 2: Monitoring locations during February 2019 in TRDC



## Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and February 2019 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 15 Minute PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Minimum 15 Minute PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Maximum 15 Minute PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Number of 15 Minute periods exceeding trigger level of 190 µg/m <sup>3</sup>	15 minute data capture (%)
M25 Slip Roads	502883, 191477	Chalfont Lane	M	Yes	No	16.24	0.3	1529.6	10	100

Table 2: Summary of exceedances of trigger level in February 2019

Period exceeding trigger level	Worksite reference	Monitoring site ID	Complaint reference number (if applicable)	Reason	Resolution
04/02/2019 20:15-20:30	Chalfont Lane 502882.700, 191476.600	M25 Slip Roads	n/a	Unknown – out of working hours	N/A
04/02/2019 20:45-21:30 (3 triggers)	Chalfont Lane 502882.700, 191476.600	M25 Slip Roads	n/a	Unknown – out of working hours	N/A
04/02/2019 23:45-05/02/2019 00:30 (3 triggers)	Chalfont Lane 502882.700, 191476.600	M25 Slip Roads	n/a	Unknown – out of working hours	N/A
05/02/2019 06:45-07:00	Chalfont Lane 502882.700, 191476.600	M25 Slip Roads	n/a	Unknown – out of working hours	N/A
14/02/2019 03:15-03:30	Chalfont Lane 502882.700, 191476.600	M25 Slip Roads	n/a	Unknown – out of working hours	N/A
14/02/2019 03:45-04:00	Chalfont Lane 502882.700, 191476.600	M25 Slip Roads	n/a	Unknown – out of working hours	N/A

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

