

## **Air Quality and Dust Monitoring Monthly Report – May 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 May 2019.
- 1.1.2 Figure 1 and Figure 2 in Appendix A indicate the current work sites together with dust and air quality monitoring locations for May 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 was completed in May 2019. The worksites during May 2019, 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.
- 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. The monitor was removed from site following the completion of the Osbourne's works on 17<sup>th</sup> May 2019.

- 1.1.6 The dust monitoring location, line graph and results are presented in Appendix B, Table 1 and Figure 3.
- 1.1.7 The trigger level of 190  $\mu\text{g}/\text{m}^3$ , 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 exceedances of the dust trigger level were recorded during the May 2019 monitoring period.
- 1.1.9 There were no complaints received, relating to air quality, during this monitoring period.

# Appendix A – Worksites and Monitoring Locations

Figure 1: Worksite locations during May 2019 in TRDC

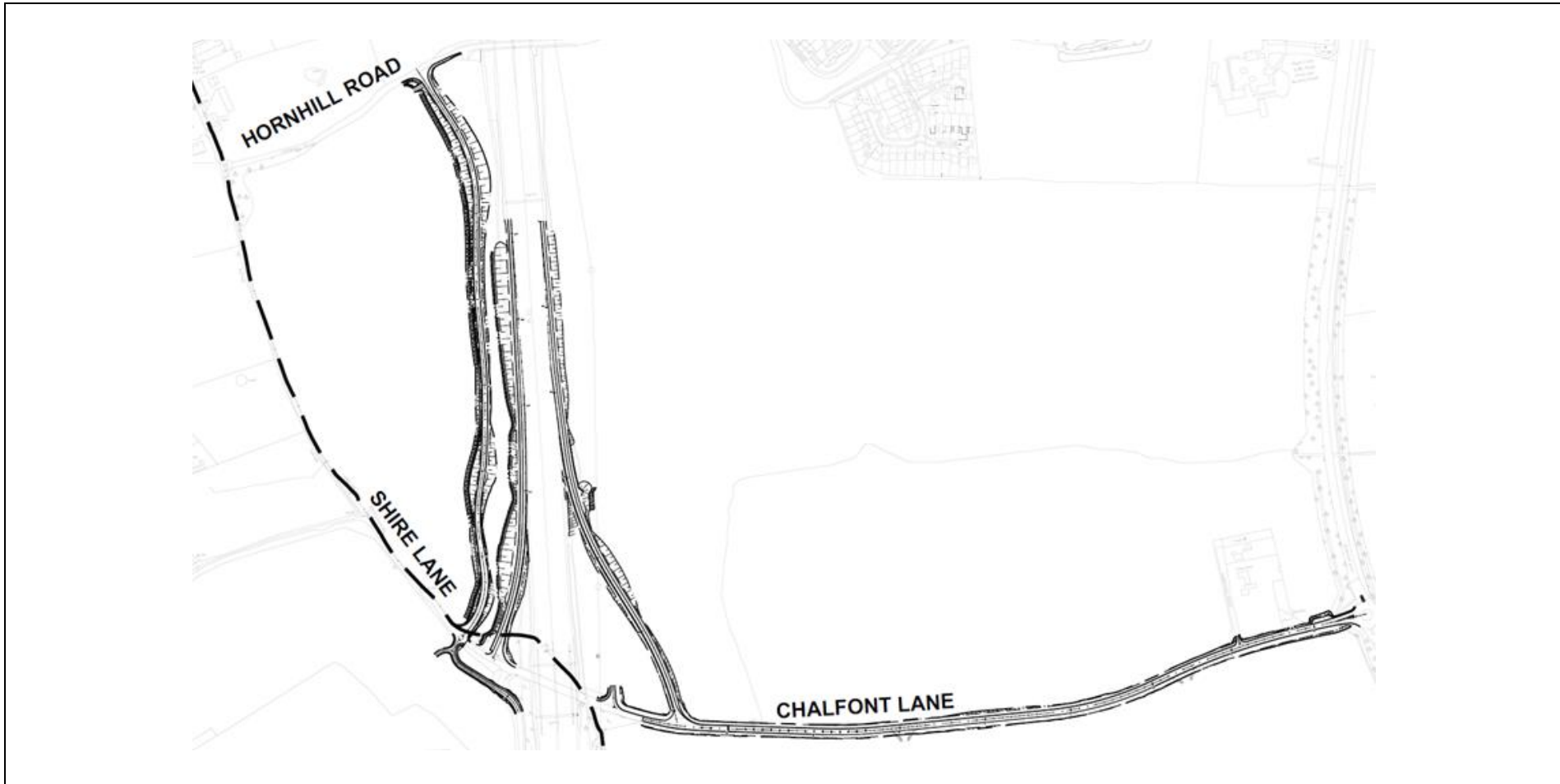


Figure Name

**Worksite locations during May 2019 in TRDC**

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Figure 2: Monitoring locations during May 2019 in TRDC

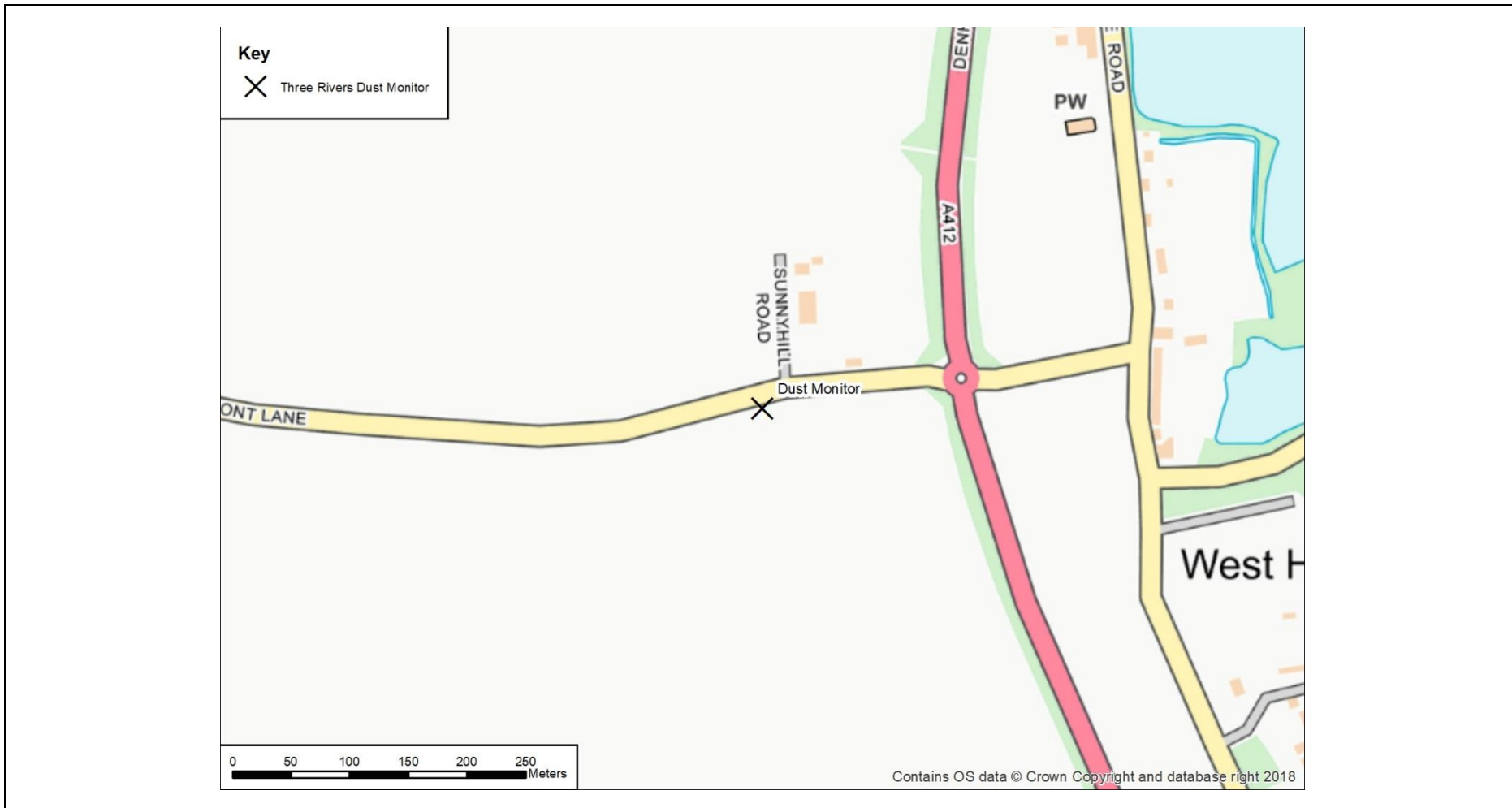




Figure Name	HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.		
<b>Monitoring locations during May 2019 in TRDC</b>			

# Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and May 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 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>	Data capture (%)
M25 Slip Roads	502882.7, 191476.6	Chalfont Lane	M	Yes	No	9.1	1.7	44.1	0	100

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

