

**Results of automatic monitoring for nitrogen dioxide (NO<sub>2</sub>) at 93 Thoroughfare, Woodbridge: Annual Mean and 1-hour Mean**

Year	Valid Data Capture %	Annual Mean NO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	Number of Hourly Means > 200µg/m <sup>3</sup>
2005	98.7%	42	0
2006	96.3%	44	0
2007	98.4%	46	2
2008	98.9%	45	2
2009	96.1%	45	1
2010	96.8%	45	0
2011	93.0%	42	0
2012	97.8%	44	1
2013	97.3%	42	0
2014	85.3%	39	0
2015	96.3%	35	5
2016	99.6%	37	0
2017	99.1%	37	0
2018	96.0%	33	0
2019	70.57%	31* (34 = annual mean recorded with 70.57% data capture)	(122µg/m <sup>3</sup> ) #
2020	99.32%	25	0
2021	95.98%	25	0

\* Data has been 'annualised' to provide the annual mean - technical guidance (LAQM.TG(16)) provided by the Department for Environment, Food and Rural Affairs (Defra) advises data from any sites with less than 75% data capture over a calendar year should be annualised. The reason for annualisation is that the concentration varies throughout the year, and the instrument may have been operational for a period of above or below average concentrations. Box 7.9 in LAQM.TG(16) <https://laqm.defra.gov.uk/technical-guidance/> provides the methodology for undertaking this calculation.

# Technical Guidance LAQM.TG(16) advises that the number of exceedances of the 1-hour objective should only be reported where data capture is more than 85% of a full year. If data capture is less than 85%, or monitoring is for less than a full year, local authorities should instead report the 99.8th percentile for 1-hour NO<sub>2</sub>. If the 99.8th percentile is greater than 200µg/m<sup>3</sup> this means that if there had been 100% data capture there would have been greater than 18 exceedances of 200µg/m<sup>3</sup> in the calendar year. If it is less than 200µg/m<sup>3</sup> the 1-hour objective will not have been exceeded.

**N.B** Please note that during 2020 the COVID-19 lockdowns had an impact to reduce traffic flows across the country. This will, in turn, have led to a reduction in vehicle emissions of NO<sub>2</sub> and therefore recorded NO<sub>2</sub> concentrations within the district. Please use caution when interpreting the data.

**Details for the nitrogen dioxide automatic monitoring site located at 93 Thoroughfare, Woodbridge**

<b>Site Name</b>	<b>Site Type</b>	<b>X OS Grid Reference</b>	<b>Y OS Grid Reference</b>	<b>Inlet Height (m)</b>	<b>Pollutants Monitored</b>	<b>In Air Quality Management Area?</b>	<b>Monitoring Technique</b>	<b>Relevant Exposure? (Y/N with distance (m) from monitoring site to relevant exposure)</b>	<b>Distance to Kerb of Nearest Road (m)</b>	<b>Does this Location Represent Worst-Case Exposure?</b>
Woodbridge Junction	Roadside	X 627596	Y 249261	2.6	Nitrogen dioxide (NO <sub>2</sub> )	Yes	ozone chemi-luminescence	Yes (0m)	1.2m	Yes