

## LABORATORY ANALYSIS REPORT

### NITROGEN DIOXIDE IN DIFFUSION TUBES BY U.V.SPECTROPHOTOMETRY

**REPORT NUMBER** R07096R  
**BOOKING IN REFERENCE** R07096  
**DESPATCH NOTE** 93569  
**CUSTOMER** Tewkesbury Borough Council Attn: Philip Grist  
Environmental Health Dept.  
Gloucester Road  
Tewkesbury 'A'  
Gloucestershire  
GL20 5TT

**DATE SAMPLES RECEIVED** 04/10/2023  
**JOB REFERENCE** August 2023

Location	Sample Number	Exposure Date On*	Exposure Date Off*	Time* (hr.)	µg/m <sup>3</sup> *	ppb *	µg NO <sub>2</sub> on tube
Scrivens, 131, High Street, Tewkesbury (3)1N	2274587	03/08/2023	04/09/2023	767.75	20.48	10.69	1.14
Corner of Oldbury Road/East Street, Tewkesbury (3)2N	2274586	03/08/2023	04/09/2023	767.75	11.94	6.23	0.67
Kellands, 13-14, Barton Street, Tewkesbury 5N	2274585	03/08/2023	04/09/2023	767.75	18.92	9.88	1.06
Age Concern, 14, High Street, Tewkesbury 6N	2274584	03/08/2023	04/09/2023	767.75	27.63	14.42	1.54
69, Sussex Gardens, Hucclecote 14N	2274583	03/08/2023	04/09/2023	768.75	18.69	9.75	1.04
Comus, Bamfurlong, Staverton 15N	2274582	03/08/2023	04/09/2023	769.00	13.87	7.24	0.78
15, Withybridge Gardens, Withybridge 16N	2274581	03/08/2023	04/09/2023	769.00	18.75	9.79	1.05
Snowhill Farm, Snowhill 20N	2274594	03/08/2023	04/09/2023	767.75	3.21	1.67	0.18
Peacocks, High Street, Tewkesbury 35N	2274593	03/08/2023	04/09/2023	767.75	28.28	14.76	1.58
Wetherspoons, The Cross, Tewkesbury 37N	2274592	03/08/2023	04/09/2023	767.75	19.82	10.34	1.11
Avonside, 38, High Street, Tewkesbury 38N	2274591	03/08/2023	04/09/2023	767.75	20.88	10.90	1.17
The Tackle Shop, 31, Barton Street, Tewkesbury 41N	2274590	03/08/2023	04/09/2023	767.75	27.17	14.18	1.52
65, Barton Street, Tewkesbury 47N	2274589	03/08/2023	04/09/2023	767.75	21.47	11.21	1.20
The White Hart, Castle Street, Winchcombe 50N	2274588	03/08/2023	04/09/2023	767.50	12.76	6.66	0.71
43, Stocken Close, Hucclecote 52N	2274601	03/08/2023	04/09/2023	768.75	17.88	9.33	1.00
Ashchurch Road, Ashchurch, Tewkesbury 53N	2274600	03/08/2023	04/09/2023	767.75	15.97	8.33	0.89
Stoke Road, Bishops Cleeve 55N	2274599	03/08/2023	04/09/2023	767.50	15.44	8.06	0.86
Tewkesbury Church of England Primary School, Rope Walk, Tewkesbury 56N	2274598	03/08/2023	04/09/2023	767.75	8.15	4.26	0.46
15, Kestrel Way, Northway, Tewkesbury 57N	2274597	03/08/2023	04/09/2023	767.75	13.73	7.16	0.77
Blank	2274596			769.00	0.30	0.16	0.02
Laboratory Blank				769.00	0.20	0.10	0.011

**Comment: Results are not blank subtracted**

**Tube 2274601 contained a spider & nest. Result may be compromised.**

**Tube 2274597 contained a spider. Result may be compromised.**

**Tube 2274594 contained an insect. Result may be compromised.**

**Results have been corrected to a temperature of 293 K (20°)**

**Overall M.U.**

±9.7%

**Limit of Detection** 0.037µgNO<sub>2</sub>

The reported expanded uncertainty is based on a standard uncertainty multiplied by a factor of  $k=2$ , providing a level of confidence of approximately 95%. Uncertainty of measurement has not been applied to the reported results.

**Tube Preparation: 50% TEA /Acetone**

**Analyst Name**

Alison Wright

Analysed on UV CARY3

**Report Checked By** Adam Robinson

**Date of Analysis**

18/10/2023

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18/10/2023

**Analysis carried out in accordance with documented in-house Laboratory Method GLM7**

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Results within this report relate only to samples as received. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (\*), these calculations and results are not within the scope of our UKAS accreditation. Any queries concerning data in this report should be directed to the Laboratory Manager Gradko International Ltd. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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REPORT OFFICIALLY CHECKED

Gradko International Ltd  
This signature confirms the authenticity of these results  
Signed.....  
L. Gates, Laboratory Manager