

LABORATORY ANALYSIS REPORT

NITROGEN DIOXIDE IN DIFFUSION TUBES BY U.V.SPECTROPHOTOMETRY

REPORT NUMBER T02476R
BOOKING IN REFERENCE T02476
DESPATCH NOTE 93588
CUSTOMER Tewkesbury Borough Council Attn: Isabel Hooper
Environmental Health Dept.
Gloucester Road
Tewkesbury 'A'
Gloucestershire
GL20 5TT

DATE SAMPLES RECEIVED 08/04/2025
JOB REFERENCE Mar-25

Location	Sample Number	Exposure Data			$\mu\text{g}/\text{m}^3$ *	ppb *	$\mu\text{g NO}_2$ on tube
		Date On*	Date Off*	Time* (hr.)			
Scrivens, 131, High Street, Tewkesbury (3)1N	2626958	03/03/2025	03/04/2025	743.92	26.32	13.74	1.42
Corner of Oldbury Road/East Street, Tewkesbury (3)2N	2626959	03/03/2025	03/04/2025	743.92	13.30	6.94	0.72
Kellands, 13-14, Barton Street, Tewkesbury 5N	2626960	03/03/2025	03/04/2025	743.67	23.42	12.22	1.27
Age Concern, 14, High Street, Tewkesbury 6N	2626961	03/03/2025	03/04/2025	744.00	26.63	13.90	1.44
69, Sussex Gardens, Hucclecote 14N	2626962	03/03/2025	04/04/2025	770.00	21.59	11.27	1.21
Comus, Bamfurlong, Staverton 15N	2626963	03/03/2025	03/04/2025	743.75	11.64	6.07	0.63
15, Withybridge Gardens, Withybridge 16N	2626964	03/03/2025	03/04/2025	743.50	18.12	9.46	0.98
Snowhill Farm, Snowhill 20N	2626965	03/03/2025	03/04/2025	743.50	7.16	3.74	0.39
Peacocks, High Street, Tewkesbury 35N	2626966	03/03/2025	03/04/2025	744.00	27.17	14.18	1.47
Wetherspoons, The Cross, Tewkesbury 37N	2626967	03/03/2025	03/04/2025	743.75	18.72	9.77	1.01
Avonside, 38, High Street, Tewkesbury 38N	2626968	03/03/2025	03/04/2025	744.75	19.95	10.41	1.08
The Tackle Shop, 31, Barton Street, Tewkesbury 41N	2626969	03/03/2025	03/04/2025	744.92	29.37	15.33	1.59
65, Barton Street, Tewkesbury 47N	2626970	03/03/2025	03/04/2025	743.73	24.03	12.54	1.30
43, Stocken Close, Hucclecote 52N	2626972	03/03/2025	04/04/2025	770.00	49.23	25.69	2.76
Ashchurch Road, Ashchurch, Tewkesbury 53N	2626973	03/03/2025	03/04/2025	743.70	16.24	8.48	0.88
Stoke Road, Bishops Cleeve 55N	2626974	03/03/2025	03/04/2025	743.50	11.49	6.00	0.62
Tewkesbury Church of England Primary School, Rope Walk, Tewkesbury 56N	2626975	03/03/2025	03/04/2025	743.75	10.77	5.62	0.58
15, Kestrel Way, Northway, Tewkesbury 57N	2626976	03/03/2025	03/04/2025	743.67	13.64	7.12	0.74
Blank	2626977			770.00	1.11	0.58	0.06
Laboratory Blank				770.00	0.13	0.07	0.007

Comment: Results are not blank subtracted

Customer noted missing tube: 2626971.

Tube 2626975 contained a spider. Result may be compromised.

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

Overall M.U. $\pm 9.7\%$

Limit of Detection $0.043\mu\text{gNO}_2$

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.

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.

REPORT OFFICIALLY CHECKED

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

LABORATORY ANALYSIS REPORT

Tube Preparation: 50% TEA /Acetone

Analysed on UV CARY1

Analyst Name

Ivelina Paldamova

Report Checked By

Vanessa Kellie

Date of Analysis

28/04/2025

Date of Report

28/04/2025

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

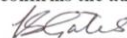
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Report Number T02476R

Page 2 of 2

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Signed.....
L. Gates, Laboratory Manager