

LABORATORY ANALYSIS REPORT

NITROGEN DIOXIDE IN DIFFUSION TUBES BY U.V.SPECTROPHOTOMETRY

REPORT NUMBER R02739R
BOOKING IN REFERENCE R02739
DESPATCH NOTE 93564
CUSTOMER Tewkesbury Borough Council Attn: Philip Grist
Environmental Health Dept.
Gloucester Road
Tewkesbury 'A'
Gloucestershire
GL20 5TT

DATE SAMPLES RECEIVED 05/04/2023
JOB REFERENCE Mar-23

Location	Sample Number	Exposure Data		Time* (hr.)	µg/m ³ *		µg NO ₂ on tube
		Date On*	Date Off*		ppb *	ppb *	
Scrivens, 131, High Street, Tewkesbury (3)1N	2176947	03/03/2023	03/04/2023	744.00	24.65	12.87	1.33
Corner of Oldbury Road/East Street, Tewkesbury (3)2N	2176946	03/03/2023	03/04/2023	744.00	14.50	7.57	0.78
Kellands, 13-14, Barton Street, Tewkesbury 5N	2176945	03/03/2023	03/04/2023	744.00	19.82	10.35	1.07
Age Concern, 14, High Street, Tewkesbury 6N	2176944	03/03/2023	03/04/2023	744.00	29.33	15.31	1.59
69, Sussex Gardens, Hucclecote 14N	2176943	03/03/2023	03/04/2023	738.75	19.26	10.05	1.03
Comus, Bamfurlong, Staverton 15N	2176942	03/03/2023	03/04/2023	738.50	17.49	9.13	0.94
15, Withybridge Gardens, Withybridge 16N	2176953	03/03/2023	03/04/2023	738.25	19.98	10.43	1.07
Snowhill Farm, Snowhill 20N	2176952	03/03/2023	03/04/2023	738.75	<0.80	<0.42	<0.043
Peacocks, High Street, Tewkesbury 35N	2176951	03/03/2023	03/04/2023	744.00	30.61	15.97	1.66
Wetherspoons, The Cross, Tewkesbury 37N	2176950	03/03/2023	03/04/2023	744.00	21.01	10.96	1.14
Avonside, 38, High Street, Tewkesbury 38N	2176949	03/03/2023	03/04/2023	744.00	21.23	11.08	1.15
The Tackle Shop, 31, Barton Street, Tewkesbury 41N	2176948	03/03/2023	03/04/2023	744.00	28.48	14.86	1.54
65, Barton Street, Tewkesbury 47N	2176959	03/03/2023	03/04/2023	744.00	26.11	13.63	1.41
The White Hart, Castle Street, Winchcombe 50N	2176958	03/03/2023	03/04/2023	738.50	12.87	6.72	0.69
43, Stocken Close, Hucclecote 52N	2176957	03/03/2023	03/04/2023	738.75	15.42	8.05	0.83
Ashchurch Road, Ashchurch, Tewkesbury 53N	2176956	03/03/2023	03/04/2023	739.25	16.21	8.46	0.87
Stoke Road, Bishops Cleeve 55N	2176955	03/03/2023	03/04/2023	738.50	20.57	10.74	1.10
Tewkesbury Church of England Primary School, Rope Walk, Tewkesbury 56N	2176954	03/03/2023	03/04/2023	744.00	10.73	5.60	0.58
15, Kestrel Way, Northway, Tewkesbury 57N	2176964	03/03/2023	03/04/2023	739.50	16.63	8.68	0.89
Blank	2176963			744.00	0.33	0.17	0.02
Laboratory Blank				744.00	0.22	0.12	0.012

Comment: Results are not blank subtracted

Results reported as <0.043 are below the reporting limit.

Tube 2176953 contained a spider. Result may be compromised.

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

Overall M.U.

±9.7%

Limit of Detection 0.043µgNO₂

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

Analysed on UV CARY1

Analyst Name

Sania Choudhury

Report Checked By Adam Robinson

Date of Analysis

12/04/2023

Date of Report

12/04/2023

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