

LABORATORY ANALYSIS REPORT

NITROGEN DIOXIDE IN DIFFUSION TUBES BY U.V.SPECTROPHOTOMETRY

REPORT NUMBER S08140R
BOOKING IN REFERENCE S08140
DESPATCH NOTE 93584
CUSTOMER Tewkesbury Borough Council Attn: Isabel Hooper
Environmental Health Dept.
Gloucester Road
Tewkesbury 'A'
Gloucestershire
GL20 5TT

DATE SAMPLES RECEIVED 04/12/2024
JOB REFERENCE November 2024

Location	Sample		Exposure Data		Time* (hr.)	µg/m ³ *	ppb *	µg NO ₂ on tube
	Number	Date On*	Date Off*					
Scrivens, 131, High Street, Tewkesbury (3)1N	2555172	04/11/2024	02/12/2024		671.17	30.63	15.98	1.49
Corner of Oldbury Road/East Street, Tewkesbury (3)2N	2555173	04/11/2024	02/12/2024		671.17	20.99	10.96	1.02
Kellands, 13-14, Barton Street, Tewkesbury 5N	2555174	04/11/2024	02/12/2024		671.17	24.68	12.88	1.20
69, Sussex Gardens, Hucclecote 14N	2555176	04/11/2024	02/12/2024		675.42	23.35	12.18	1.15
Comus, Bamfurlong, Staverton 15N	2555177	04/11/2024	02/12/2024		675.33	19.07	9.95	0.94
15, Withybridge Gardens, Withybridge 16N	2555178	04/11/2024	02/12/2024		675.08	18.93	9.88	0.93
Snowhill Farm, Snowhill 20N	2555179	04/11/2024	02/12/2024		670.67	8.47	4.42	0.41
Peacocks, High Street, Tewkesbury 35N	2555180	04/11/2024	02/12/2024		671.33	32.92	17.18	1.61
Wetherspoons, The Cross, Tewkesbury 37N	2555181	04/11/2024	02/12/2024		671.33	24.37	12.72	1.19
Avonside, 38, High Street, Tewkesbury 38N	2555182	04/11/2024	02/12/2024		671.17	28.39	14.82	1.39
65, Barton Street, Tewkesbury 47N	2555184	04/11/2024	02/12/2024		669.25	30.18	15.75	1.47
The White Hart, Castle Street, Winchcombe 50N	2555185	04/11/2024	02/12/2024		670.67	16.45	8.59	0.80
43, Stocken Close, Hucclecote 52N	2555186	04/11/2024	02/12/2024		675.25	17.81	9.29	0.87
Ashchurch Road, Ashchurch, Tewkesbury 53N	2555187	04/11/2024	02/12/2024		671.17	21.05	10.99	1.03
Stoke Road, Bishops Cleeve 55N	2555188	04/11/2024	02/12/2024		670.58	19.74	10.30	0.96
Tewkesbury Church of England Primary School, Rope Walk, Tewkesbury 56N	2555189	04/11/2024	02/12/2024		671.25	14.47	7.55	0.71
15, Kestrel Way, Northway, Tewkesbury 57N	2555190	04/11/2024	02/12/2024		670.00	20.27	10.58	0.99
Not on sheet ("24/12/Blank" on tube)	2573503				675.42	0.24	0.13	0.01
Laboratory Blank					675.42	0.26	0.14	0.013

Comment: Results are not blank subtracted

Customer noted missing tubes: 2555175 & 2555183.

Tube 2555191 was missing on arrival.

Tube 2573503 was received but not listed on the exposure sheet. Maximum exposure time was used.

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

Overall M.U. ±9.7%

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

Date of Analysis

12/12/2024

Limit of Detection

0.043µgNO₂

Analysed on UV CARY4

Report Checked By

Marek Bianga

Date of Report

12/12/2024

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.

Form LQF32b Issue 10 – November 2021

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REPORT OFFICIALLY CHECKED

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