

## LABORATORY ANALYSIS REPORT

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

**REPORT NUMBER** R08581R  
**BOOKING IN REFERENCE** R08581  
**DESPATCH NOTE** 93572  
**CUSTOMER** Tewkesbury Borough Council Attn: Philip Grist  
Environmental Health Dept.  
Gloucester Road  
Tewkesbury 'A'  
Gloucestershire  
GL20 5TT

**DATE SAMPLES RECEIVED** 05/12/2023  
**JOB REFERENCE** Nov-23

Location	Sample Number	Exposure Data		Time* (hr.)	µg/m <sup>3</sup> *	ppb *	µg NO <sub>2</sub> on tube
		Date On*	Date Off*				
Scrivens, 131, High Street, Tewkesbury (3)1N	2331195	03/11/2023	04/12/2023	744.25	27.38	14.29	1.48
Corner of Oldbury Road/East Street, Tewkesbury (3)2N	2331196	03/11/2023	04/12/2023	744.25	20.39	10.64	1.10
Kellands, 13-14, Barton Street, Tewkesbury 5N	2331197	03/11/2023	04/12/2023	744.25	23.66	12.35	1.28
Age Concern, 14, High Street, Tewkesbury 6N	2331198	03/11/2023	04/12/2023	744.25	33.66	17.57	1.82
69, Sussex Gardens, Hucclecote 14N	2331199	03/11/2023	04/12/2023	744.50	26.09	13.62	1.41
Comus, Bamfurlong, Staverton 15N	2331200	03/11/2023	04/12/2023	745.00	20.52	10.71	1.11
15, Withybridge Gardens, Withybridge 16N	2331201	03/11/2023	04/12/2023	745.50	19.77	10.32	1.07
Snowhill Farm, Snowhill 20N	2331202	03/11/2023	04/12/2023	744.50	7.32	3.82	0.40
Peacocks, High Street, Tewkesbury 35N	2331203	03/11/2023	04/12/2023	744.25	30.76	16.06	1.66
Wetherspoons, The Cross, Tewkesbury 37N	2331204	03/11/2023	04/12/2023	744.25	25.92	13.53	1.40
Avonside, 38, High Street, Tewkesbury 38N	2331205	03/11/2023	04/12/2023	737.58	28.71	14.98	1.54
The Tackle Shop, 31, Barton Street, Tewkesbury 41N	2331206	03/11/2023	04/12/2023	744.25	31.93	16.66	1.73
65, Barton Street, Tewkesbury 47N	2331207	03/11/2023	04/12/2023	744.25	28.84	15.05	1.56
The White Hart, Castle Street, Winchcombe 50N	2331208	03/11/2023	04/12/2023	744.50	19.52	10.19	1.06
43, Stocken Close, Hucclecote 52N	2331210	03/11/2023	04/12/2023	744.50	23.93	12.49	1.30
Ashchurch Road, Ashchurch, Tewkesbury 53N	2331211	03/11/2023	04/12/2023	744.25	22.24	11.61	1.20
Stoke Road, Bishops Cleeve 55N	2331212	03/11/2023	04/12/2023	744.25	25.92	13.53	1.40
Tewkesbury Church of England Primary School, Rope Walk, Tewkesbury 56N	2331213	03/11/2023	04/12/2023	744.25	16.82	8.78	0.91
15, Kestrel Way, Northway, Tewkesbury 57N	2331214	03/11/2023	04/12/2023	744.25	23.05	12.03	1.25
Blank	2331215			745.50	0.17	0.09	0.01
Laboratory Blank				745.50	0.24	0.13	0.013

**Comment: Results are not blank subtracted**

**Tube 2331201 contained a spider. Result may be compromised.**

**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**

Jennie Green

**Limit of Detection** 0.040µgNO<sub>2</sub>

Analysed on UV CARY2

**Report Checked By** Adam Robinson

**Date of Analysis**

08/12/2023

**Date of Report**

08/12/2023

**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.

Form LQF32b Issue 10 – November 2021

Report Number R08581R

Page 1 of 1

REPORT OFFICIALLY CHECKED

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