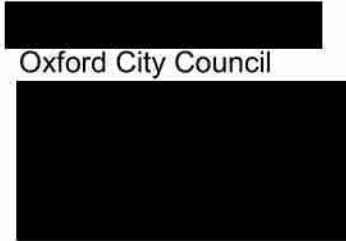




Customer:



Oxford City Council

Testing Facility:

SOCOTEC  
Unit 12  
Moorbrook  
Southmead Industrial  
Park  
Didcot  
Oxfordshire  
OX11 7HP

Quotation  
Number:

DIF-ANU-11392  
(Period 1)

Samples  
Received:

05 February 2024

Customer  
Order Number:

Analysis  
Completed:

19 February 2024

Customer  
Reference:

Report Date:

21 February 2024

## Nitrogen Dioxide Diffusion Tube Analysis Report

The samples have been analysed in accordance with SOCOTEC's standard operating procedure ANU/SOP/1015. This method meets the guidelines set out in DEFRA's 'Diffusion Tubes for Ambient NO<sub>2</sub> Monitoring: Practical Guidance.'

The tubes were prepared by spiking acetone:triethanolamine (50:50) onto the grids prior to the tubes being assembled. The tubes were desorbed with distilled water and the extract analysed using a segmented flow auto analyser with ultraviolet detection. All samples were received in good condition, unless otherwise stated in the comments field of results table. Please note:

- (i) As set out in the practical guidance, the results were initially calculated assuming an ambient temperature of 11°C, the reported values **have** been adjusted to 20°C to allow for direct comparison with EU limits.
- (ii) The reported results have not been bias adjusted.

This analysis of diffusion tube samples to determine the amount of nitrogen dioxide present on the tube is within the scope of our UKAS schedule. Any further calculations and assessments requiring exposure details and conditions fall outside the scope of our accreditation. In the AIR PT intercomparison scheme for comparing spiked Nitrogen Dioxide diffusion tubes, SOCOTEC currently holds the highest rank of a **Satisfactory** laboratory.

This report shall not be reproduced except in full without approval of the laboratory.

Approved By



1252



Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/24B/NB1S1	Oxey Mead Lake 1							Missing
OCC/24B/NB1S2	Oxey Mead Lake 2							Lost -> tube
OCC/24B/NB1S3	Oxey Mead Lake 3	04/01/2024 08:15	01/02/2024 08:20	672.08	1.16	24.8	12.9	
OCC/24B/NB1S4	Wolvercote Village	04/01/2024 08:31	01/02/2024 08:32	672.02	0.85	18.1	9.4	
OCC/24B/NB1S5	Wolvercote Primary School	04/01/2024 08:37	01/02/2024 08:43	672.10	1.01	21.5	11.2	
OCC/24B/NB1S6	306 Woodstock Road	04/01/2024 08:43	01/02/2024 09:06	672.38	1.06	22.5	11.7	
OCC/24B/NB1S7	339 Bambury Road	04/01/2024 08:47	01/02/2024 09:09	672.37	1.59	33.8	17.6	
OCC/24B/NB1S8	191 Woodstock Road	04/01/2024 08:51	01/02/2024 09:17	672.43	1.29	27.4	14.3	
OCC/24B/NB1S9	48 Woodstock Road	04/01/2024 08:56	01/02/2024 09:21	672.42	1.37	29.2	15.2	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/24B/NB1S10	99 Bambury Road	04/01/2024 09:02	01/02/2024 09:27	672.42	1.2	25.5	13.3	
OCC/24B/NB1S11	9 S.Parks Road	04/01/2024 09:10	01/02/2024 09:35	672.42	1.18	25.1	13	
OCC/24B/NB1S12	15 Bambury Road	04/01/2024 09:13	01/02/2024 09:40	672.45	0.91	19.3	10.1	
OCC/24B/NB1S13	76 Walton Street	04/01/2024 09:20	01/02/2024 10:02	672.70	1.11	23.6	12.3	
OCC/24B/NB1S14	69 Kingston Road	04/01/2024 09:28	01/02/2024 10:05	672.62	0.9	19.2	10	
OCC/24B/NB1S15	Park End St	04/01/2024 09:49	01/02/2024 10:12	672.38	1.63	34.8	18.1	
OCC/24B/NB1S16	St Aldates 61	04/01/2024 09:57	01/02/2024 10:20	672.38	1.55	33.1	17.2	
OCC/24B/NB1S17	94 Howard St/ Catherine St	04/01/2024 10:07	01/02/2024 10:38	672.52	0.88	18.8	9.8	
OCC/24B/NB1S18	110 Magdalen Rd/Hurst St	04/01/2024 10:12	01/02/2024 10:40	672.47	1	21.4	11.1	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/24B/NB1S19	Iffley Road/ Stanley Road	04/01/2024 10:15	01/02/2024 10:45	672.50	1.48	31.5	16.4	
OCC/24B/NB1S20	26 Prince St	04/01/2024 10:22	01/02/2024 11:00	672.63	0.84	17.9	9.3	
OCC/24B/NB1S21	East Oxford Primary	04/01/2024 10:31	01/02/2024 11:00	672.48	0.85	18	9.4	
OCC/24B/NB1S22	K3 Morrel Avenue	04/01/2024 10:34	01/02/2024 11:07	672.55	1.04	22.3	11.6	
OCC/24B/NB1S23	Morrel Av. Bus Stop	04/01/2024 10:36	01/02/2024 11:09	672.55	0.96	20.5	10.7	
OCC/24B/NB1S24	189 Divinity Rd	04/01/2024 10:38	01/02/2024 11:11	672.55	0.74	15.8	8.2	
OCC/24B/NB1S25	Headington Hill	04/01/2024 10:41	01/02/2024 11:20	672.65	2.03	43.3	22.5	
OCC/24B/NB1S26	Marston Road (St Michaels)	04/01/2024 10:56	01/02/2024 11:29	672.55	0.66	14.1	7.3	
OCC/24B/NB1S27	Headley Way 189	04/01/2024 10:59	01/02/2024 11:34	672.58	1.45	30.9	16.1	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/24B/NB1S28	255 London Road/Gladstone Road	04/01/2024 11:05	01/02/2024 11:41	672.60	1.61	34.4	17.9	
OCC/24B/NB1S29	JR	04/01/2024 11:09	01/02/2024 11:52	672.72	1.13	24	12.5	
OCC/24B/NB1S30	Marston Ferry Rd/Cherwell Drive	04/01/2024 11:13	01/02/2024 11:59	672.77	0.85	18	9.4	
OCC/24B/NB1S31	Marsh Lane 39	04/01/2024 11:17	01/02/2024 12:02	672.75	1.06	22.5	11.7	
OCC/24B/NB1S32	Cotteslowe Park	04/01/2024 11:24	01/02/2024 12:07	672.72	1.38	29.4	15.3	
OCC/24B/NB1S33	Phillips Tyres	04/01/2024 11:27	01/02/2024 12:13	672.77	2.11	44.9	23.4	
OCC/24B/NB1S34	Horspath Driftway	04/01/2024 11:30	01/02/2024 12:24	672.90	1.37	29.2	15.2	
OCC/24B/NB1S35	126 The Slade	04/01/2024 11:41	01/02/2024 12:32	672.85	1.31	27.9	14.5	
OCC/24B/NB1S36	109 Old Road	04/01/2024 11:48	01/02/2024 12:35	672.78	1.05	22.4	11.7	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/24B/NB1S37	99 Oliver Road	04/01/2024 12:02	01/02/2024 12:43	672.68	2	42.5	22.1	
OCC/24B/NB1S38	Brasenose Farm	04/01/2024 12:09	01/02/2024 12:50	672.68	2.16	46	23.9	
OCC/24B/NB1S39	Garsington Rd 22	04/01/2024 12:19	01/02/2024 12:58	672.65	1.24	26.4	13.7	
OCC/24B/NB1S40	119 Barns Road	04/01/2024 12:42	01/02/2024 13:00	672.30	1.26	26.8	13.9	
OCC/24B/NB1S41	Church Cowley	04/01/2024 12:49	01/02/2024 13:05	672.27	1.54	32.9	17.1	
OCC/24B/NB1S42	Newman Road	04/01/2024 12:51	01/02/2024 13:11	672.33	1.86	39.6	20.6	
OCC/24B/NB1S43	A24 Wolercote Meadows	04/01/2024 12:53	01/02/2024 13:26	672.55	1.74	37	19.2	
OCC/24B/NB1S44	A24 Wolvercote Meadow 2	04/01/2024 13:00	01/02/2024 13:30	672.50	1.31	27.9	14.5	

