



Customer:



Testing Facility:

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

Quotation  
Number:

DIF-ANU-10978  
(Period 8)

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

Reason for revision: Extra tube received

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/23B/NE8S1	Oxey Mead Lake 1	04/12/2023 08:15	04/01/2024 08:15	744.00	0.93	17.9	9.3	Rec'd with 24B/NB1
OCC/23B/NE8S2	Oxey Mead Lake 2	04/12/2023 08:15	04/01/2024 08:15	744.00	0.1	1.9	1	Found upside Down, water
OCC/23B/NE8S3	Oxey Mead Lake 3	04/12/2023 08:15	04/01/2024 08:15	744.00	0.81	15.6	8.1	
OCC/23B/NE8S4	Wolvercote Village	04/12/2023 08:40	04/01/2024 08:31	743.85	0.63	12.1	6.3	
OCC/23B/NE8S5	Wolvercote Primary School	04/12/2023 08:52	04/01/2024 08:37	743.75	0.59	11.5	6	
OCC/23B/NE8S6	306 Woodstock Road	04/12/2023 09:00	04/01/2024 08:43	743.72	0.82	15.9	8.3	
OCC/23B/NE8S7	339 Bambury Road	04/12/2023 09:04	04/01/2024 08:47	743.72	1.44	27.7	14.4	
OCC/23B/NE8S8	191 Woodstock Road	04/12/2023 09:10	04/01/2024 08:51	743.68	1.21	23.2	12.1	
OCC/23B/NE8S9	48 Woodstock Road	04/12/2023 09:15	04/01/2024 08:56	743.68	1.16	22.4	11.6	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/23B/NE8S10	99 Bambury Road	04/12/2023 09:20	04/01/2024 09:02	743.70	1.11	21.3	11.1	
OCC/23B/NE8S11	95 Parks Road	04/12/2023 09:35	04/01/2024 09:10	743.58	1.03	19.9	10.4	
OCC/23B/NE8S12	15 Bambury Road	04/12/2023 09:43	04/01/2024 09:13	743.50	0.83	15.9	8.3	
OCC/23B/NE8S13	Walton Street 76							Lost
OCC/23B/NE8S14	69 Kingston Road	04/12/2023 09:50	04/01/2024 09:28	743.63	0.73	14.1	7.3	
OCC/23B/NE8S15	Park End St	04/12/2023 10:04	04/01/2024 09:49	743.75	1.35	26.1	13.6	
OCC/23B/NE8S16	St Aldates 61	04/12/2023 10:19	04/01/2024 09:57	743.63	1.38	26.6	13.8	
OCC/23B/NE8S17	94 Howard St/ Catherine St	04/12/2023 10:47	04/01/2024 10:07	743.33	0.61	11.8	6.1	
OCC/23B/NE8S18	110 Magdalen Road	04/12/2023 10:47	04/01/2024 10:12	743.42	0.75	14.5	7.6	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/23B/NE8S19	Iffley Road/ Stanley Road	04/12/2023 10:50	04/01/2024 10:15	743.42	1.28	24.7	12.9	
OCC/23B/NE8S20	26 Prince St							Missing
OCC/23B/NE8S21	East Oxford Primary School	04/12/2023 11:03	04/01/2024 10:31	743.47	0.77	14.9	7.8	
OCC/23B/NE8S22	143 Morrel Av	04/12/2023 11:07	04/01/2024 10:34	743.45	0.78	15.1	7.8	
OCC/23B/NE8S23	138 - 146 Morrel Av	04/12/2023 11:10	04/01/2024 10:36	743.43	0.75	14.4	7.5	
OCC/23B/NE8S24	189 Divinity Rd	04/12/2023 11:13	04/01/2024 10:38	743.42	0.61	11.8	6.2	
OCC/23B/NE8S25	90 Valentia Rd	04/12/2023 11:15	04/01/2024 10:41	743.43	0.54	10.4	5.4	
OCC/23B/NE8S26	Hinksey hill/ Headington Rd	04/12/2023 11:30	04/01/2024 10:56	743.43	0.6	11.5	6	
OCC/23B/NE8S27	Marston Rd, St Michaels Primary School	04/12/2023 11:44	04/01/2024 10:59	743.25	0.62	11.9	6.2	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/23B/NE8S28	189 Headley Way	04/12/2023 11:51	04/01/2024 11:05	743.23	1.23	23.8	12.4	
OCC/23B/NE8S29	7 Woodlands Rd	04/12/2023 11:53	04/01/2024 11:09	743.27	0.59	11.4	5.9	
OCC/23B/NE8S30	21 Latimer Rd	04/12/2023 11:56	04/01/2024 11:13	743.28	0.74	14.3	7.4	
OCC/23B/NE8S31	Ruskin Hall/ Dunstan Rd	04/12/2023 12:03	04/01/2024 11:17	743.23	0.45	8.6	4.5	
OCC/23B/NE8S32	19 Wharton Rd	04/12/2023 12:12	04/01/2024 11:24	743.20	0.77	14.9	7.8	
OCC/23B/NE8S33	255 London Rd/ Gladstone Rd	04/12/2023 12:19	04/01/2024 11:27	743.13	1.44	27.7	14.4	
OCC/23B/NE8S34	25 Gladstone Rd	04/12/2023 12:21	04/01/2024 11:30	743.15	0.7	13.6	7	
OCC/23B/NE8S35	JR	04/12/2023 12:31	04/01/2024 11:41	743.17	1.09	21	10.9	
OCC/23B/NE8S36	Marston Ferry Rd/ Cherwell Drive	04/12/2023 12:49	04/01/2024 11:48	742.98	0.9	17.4	9.1	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/23B/NE8S37	39 Marsh Lane	04/12/2023 12:52	04/01/2024 12:02	743.17	0.83	16	8.3	
OCC/23B/NE8S38	North way/ Cutteslowe Park	04/12/2023 12:56	04/01/2024 12:09	743.22	0.94	18.1	9.4	
OCC/23B/NE8S39	Northern bypass/ Phillips Tyres	04/12/2023 13:04	04/01/2024 12:19	743.25	1.48	28.5	14.8	
OCC/23B/NE8S40	Horsparth driftway/ Agwar stone Rd	04/12/2023 13:34	04/01/2024 12:42	743.13	1.08	20.8	10.8	
OCC/23B/NE8S41	126 The Slade	04/12/2023 13:19	04/01/2024 12:49	743.50	1.2	23.2	12.1	
OCC/23B/NE8S42	109 Old Rd	04/12/2023 13:16	04/01/2024 12:51	743.58	0.72	14	7.3	
OCC/23B/NE8S43	47 Quarry Rd	04/12/2023 13:14	04/01/2024 12:53	743.65	0.24	4.6	2.4	water
OCC/23B/NE8S44	4 Quarry School							Lost
OCC/23B/NE8S45	99 Oliver Rd	04/12/2023 13:28	04/01/2024 13:13	743.75	1.49	28.7	14.9	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/23B/NE8S46	Brasenose Farm (Eastern bypass)	04/12/2023 13:37	04/01/2024 13:22	743.75	1.91	36.9	19.2	
OCC/23B/NE8S47	22 Garsington Rd	04/12/2023 13:46	04/01/2024 13:28	743.70	0.89	17.1	8.9	
OCC/23B/NE8S48	St Christophers Primary School	04/12/2023 13:53	04/01/2024 13:37	743.73	0.72	14	7.3	water
OCC/23B/NE8S49	119 Barns Rd	04/12/2023 13:58	04/01/2024 13:45	743.78	1.02	19.6	10.2	
OCC/23B/NE8S50	Oxford Rd/ Newman Rd	04/12/2023 14:09	04/01/2024 13:57	743.80	1.22	23.5	12.2	
OCC/23B/NE8S51	A34 Wolvercote Meadows	04/12/2023 14:23	04/01/2024 14:12	743.82	1.53	29.4	15.3	
OCC/23B/NE8S52	A34 Wolvercote Meadows 2	04/12/2023 14:32	04/01/2024 14:17	743.75	1.45	28	14.5	
OCC/23B/NE8S53	67 Southern bypass	04/12/2023 14:39	04/01/2024 14:21	743.70	2.49	48.1	25	
OCC/23B/NE8S54	Church Cowley Rd	04/12/2023 14:03	04/01/2024 13:51	743.80	1.24	23.9	12.4	

