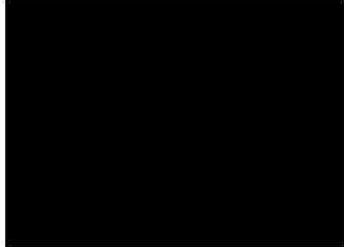




Customer:



Testing Facility:

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

Quotation
Number:

DIF-ANU-10978
(Period 3)

Samples
Received:

12 September 2023

Customer
Order Number:

Analysis
Completed:

21 September 2023

Customer
Reference:

Report Date:

22 September 2023

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 NO₂ 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 ⁻³	ppb	Comments
OCC/23B/NE3S1	Oxey Mead Lake 1	03/07/2023 06:30	02/08/2023 08:30	722.00	0.28	5.6	2.9	
OCC/23B/NE3S2	Oxey Mead Lake 2	03/07/2023 06:30	02/08/2023 08:35	722.08	0.42	8.4	4.4	
OCC/23B/NE3S3	Oxey Mead Lake 3	03/07/2023 06:30	02/08/2023 08:40	722.17	0.95	18.9	9.9	
OCC/23B/NE3S4	Wolvercote Village	03/07/2023 06:30	02/08/2023 08:44	722.23	0.48	9.6	5	
OCC/23B/NE3S5	Wolvercote Primary School	03/07/2023 06:40	02/08/2023 08:50	722.17	0.43	8.6	4.5	
OCC/23B/NE3S6	306 Woodstock Road	03/07/2023 06:45	02/08/2023 08:55	722.17	0.58	11.5	6	
OCC/23B/NE3S7	339 Bambury Road	03/07/2023 06:50	02/08/2023 09:00	722.17	1	19.9	10.3	
OCC/23B/NE3S8	191 Woodstock Road	03/07/2023 06:55	02/08/2023 09:07	722.20	0.9	17.8	9.3	
OCC/23B/NE3S9	48 Woodstock Road	03/07/2023 07:00	02/08/2023 09:12	722.20	0.97	19.3	10.1	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m ⁻³	ppb	Comments
OCC/23B/NE3S10	99 Bambury Road							missing
OCC/23B/NE3S11	95 Parks Road	03/07/2023 07:20	02/08/2023 09:36	722.27	0.68	13.5	7	
OCC/23B/NE3S12	15 Bambury Road	03/07/2023 07:25	02/08/2023 09:44	722.32	0.58	11.5	6	
OCC/23B/NE3S13	Walton Street 76	03/07/2023 07:30	02/08/2023 09:53	722.38	0.78	15.5	8.1	
OCC/23B/NE3S14	69 Kingston Road	03/07/2023 07:30	02/08/2023 09:57	722.45	0.48	9.5	4.9	
OCC/23B/NE3S15	Park End St							missing
OCC/23B/NE3S16	St Aldates 61	03/07/2023 07:50	02/08/2023 10:15	722.42	0.99	19.7	10.3	
OCC/23B/NE3S17	94 Howard St/ Catherine St	03/07/2023 08:05	02/08/2023 10:30	722.42	0.47	9.3	4.8	
OCC/23B/NE3S18	110 Magdalen Road	03/07/2023 08:05	02/08/2023 10:35	722.50	0.46	9.2	4.8	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m ⁻³	ppb	Comments
OCC/23B/NE3S19	Iffley Rd/ Stanley Rd	03/07/2023 08:10	02/08/2023 10:43	722.55	1.1	21.9	11.4	
OCC/23B/NE3S20	26 Prince St	03/07/2023 08:40	02/08/2023 10:52	722.20	0.48	9.5	4.9	
OCC/23B/NE3S21	East Oxford Primary School	03/07/2023 08:40	02/08/2023 10:58	722.30	0.46	9.1	4.7	
OCC/23B/NE3S22	143 Morrel Av	03/07/2023 08:45	02/08/2023 11:08	722.38	0.6	11.9	6.2	
OCC/23B/NE3S23	138 - 146 Morrel Av	03/07/2023 08:45	02/08/2023 11:12	722.45	0.49	9.7	5.1	
OCC/23B/NE3S24	189 Divinity Rd	03/07/2023 08:50	02/08/2023 11:14	722.40	0.38	7.5	3.9	
OCC/23B/NE3S25	90 Valentia Rd	03/07/2023 08:55	02/08/2023 11:17	722.37	0.44	8.8	4.6	
OCC/23B/NE3S26	Hinksey hill/ Headington Rd	03/07/2023 09:05	02/08/2023 11:27	722.37	3.45	68.4	35.6	
OCC/23B/NE3S27	Marston Rd, St Michaels Primary School	03/07/2023 09:15	02/08/2023 11:33	722.30	0.54	10.8	5.6	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m ⁻³	ppb	Comments
OCC/23B/NE3S28	189 Headley Way	03/07/2023 09:20	02/08/2023 11:45	722.42	0.74	14.6	7.6	
OCC/23B/NE3S29	7 Woodlands Rd							missing
OCC/23B/NE3S30	21 Latimer Rd	03/07/2023 09:25	02/08/2023 11:59	722.57	0.39	7.7	4	
OCC/23B/NE3S31	Ruskin Hall/ Dunstan Rd	03/07/2023 09:30	02/08/2023 12:14	722.73	0.83	16.4	8.5	
OCC/23B/NE3S32	19 Wharton Rd	03/07/2023 09:35	02/08/2023 12:33	722.97	0.39	7.7	4	
OCC/23B/NE3S33	255 London Rd/ Gladstone Rd	03/07/2023 09:40	02/08/2023 12:27	722.78	1.09	21.6	11.2	
OCC/23B/NE3S34	25 Gladstone Rd	03/07/2023 09:40	02/08/2023 12:31	722.85	0.37	7.4	3.9	
OCC/23B/NE3S35	JR	03/07/2023 10:50	02/08/2023 12:35	721.75	0.99	19.6	10.2	
OCC/23B/NE3S36	Marston Ferry Rd/ Cherwell Drive	03/07/2023 10:45	02/08/2023 12:42	721.95	0.64	12.7	6.6	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m ⁻³	ppb	Comments
OCC/23B/NE3S37	39 Marsh Lane	03/07/2023 11:00	02/08/2023 12:50	721.83	0.75	14.8	7.7	
OCC/23B/NE3S38	North way/ Cutteslowe Park	03/07/2023 11:05	02/08/2023 13:00	721.92	0.87	17.2	8.9	
OCC/23B/NE3S39	Northern bypass/ Phillips Tyres							missing
OCC/23B/NE3S40	Horsparth driftway/ Agwar stone Rd	03/07/2023 11:20	02/08/2023 13:22	722.03	0.99	19.7	10.2	
OCC/23B/NE3S41	126 The Slade	03/07/2023 11:30	02/08/2023 13:30	722.00	0.84	16.6	8.7	
OCC/23B/NE3S42	109 Old Rd	03/07/2023 11:40	02/08/2023 13:33	721.88	0.67	13.2	6.9	
OCC/23B/NE3S43	47 Quarry Rd	03/07/2023 11:40	02/08/2023 13:40	722.00	0.43	8.6	4.5	
OCC/23B/NE3S44	4 Quarry School	03/07/2023 11:45	02/08/2023 13:43	721.97	0.38	7.5	3.9	
OCC/23B/NE3S45	99 Oliver Rd	03/07/2023 11:50	02/08/2023 13:50	722.00	1.1	21.9	11.4	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m ⁻³	ppb	Comments
OCC/23B/NE3S46	Brasenose Farm (Eastern bypass)	03/07/2023 12:00	02/08/2023 13:58	721.97	1.77	35.2	18.3	
OCC/23B/NE3S47	22 Garsington Rd	03/07/2023 12:10	02/08/2023 14:05	721.92	0.66	13.2	6.9	
OCC/23B/NE3S48	St Christophers Primary School	03/07/2023 12:15	02/08/2023 14:11	721.93	0.43	8.5	4.4	
OCC/23B/NE3S49	119 Barns Rd							missing
OCC/23B/NE3S50	Oxford Rd/ Newman Rd	03/07/2023 12:32	02/08/2023 14:45	722.22	1.56	30.9	16.1	
OCC/23B/NE3S51	A34 Wolvercote Meadows	03/07/2023 12:45	02/08/2023 15:30	722.75	1.65	32.8	17	
OCC/23B/NE3S52	A34 Wolvercote Meadows 2	03/07/2023 12:00	02/08/2023 12:00	720.00	3.27	65.1	33.9	Rec'd with NE4
OCC/23B/NE3S53	67 Southern bypass	03/07/2023 13:00	02/08/2023 15:40	722.67	2.53	50.2	26.1	
OCC/23B/NE3S54	Church Cowley Rd	03/07/2023 12:25	02/08/2023 14:23	721.97	1.22	24.2	12.6	

