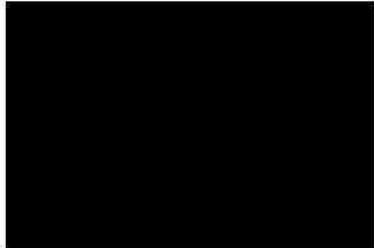




Customer:



Testing Facility:

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

Quotation  
Number:

DIF-ANU-10978  
(Period 1)

Samples  
Received:

02 June 2023

Customer  
Order Number:

Analysis  
Completed:

15 June 2023

Customer  
Reference:

Report Date:

16 June 2023

## 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/23B/NE1S1	Oxey Mead Lake 1	03/05/2023 09:40	30/05/2023 09:10	647.50	0.49	10.8	5.6	
OCC/23B/NE1S2	Oxey Mead Lake 2	03/05/2023 09:40	30/05/2023 09:10	647.50	0.71	15.8	8.2	
OCC/23B/NE1S3	Oxey Mead Lake 3	03/05/2023 09:40	30/05/2023 09:10	647.50	1.59	35.1	18.3	
OCC/23B/NE1S4	Wolvercote Village	03/05/2023 10:09	30/05/2023 09:30	647.35	0.62	13.7	7.1	
OCC/23B/NE1S5	Wolvercote Primary School	03/05/2023 10:17	30/05/2023 09:35	647.30	0.75	16.7	8.7	
OCC/23B/NE1S6	306 Woodstock Road	03/05/2023 10:24	30/05/2023 09:40	647.27	0.69	15.2	7.9	On Ground
OCC/23B/NE1S7	339 Bambury Road	03/05/2023 10:26	30/05/2023 09:50	647.40	1.19	26.4	13.7	On Ground, dirty interior
OCC/23B/NE1S8	191 Woodstock Road	03/05/2023 10:32	30/05/2023 10:00	647.47	0.83	18.5	9.6	
OCC/23B/NE1S9	48 Woodstock Road	03/05/2023 10:36	30/05/2023 10:05	647.48	0.91	20.1	10.4	





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/NE1S10	99 Bambury Road	03/05/2023 10:43	30/05/2023 10:10	647.45	0.98	21.8	11.3	
OCC/23B/NE1S11	95 Parks Road	03/05/2023 10:51	30/05/2023 10:15	647.40	0.81	17.8	9.3	
OCC/23B/NE1S12	15 Bambury Road	03/05/2023 10:57	30/05/2023 10:20	647.38	0.74	16.4	8.5	
OCC/23B/NE1S13	Walton Street 76	03/05/2023 11:01	30/05/2023 10:40	647.65	0.61	13.6	7.1	
OCC/23B/NE1S14	69 Kingston Road	03/05/2023 11:04	30/05/2023 10:50	647.77	0.49	10.8	5.6	
OCC/23B/NE1S15	Park End St	03/05/2023 11:11	30/05/2023 11:15	648.07	1.42	31.4	16.3	
OCC/23B/NE1S16	St Aldates 61	03/05/2023 11:18	30/05/2023 11:20	648.03	1.05	23.3	12.1	
OCC/23B/NE1S17	94 Howard St/ Catherine St	03/05/2023 12:17	30/05/2023 11:25	647.13	0.5	11.2	5.8	
OCC/23B/NE1S18	110 Magdalen Road	03/05/2023 12:22	30/05/2023 11:30	647.13	0.54	12	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/NE1S19	Iffley Rd/ Stanley Rd	03/05/2023 12:26	30/05/2023 11:40	647.23	1.01	22.5	11.7	
OCC/23B/NE1S20	26 Prince St	03/05/2023 12:30	30/05/2023 11:50	647.33	0.54	11.9	6.2	
OCC/23B/NE1S21	East Oxford Primary School	03/05/2023 12:48	30/05/2023 12:00	647.20	0.51	11.4	5.9	
OCC/23B/NE1S22	143 Morrel Av	03/05/2023 12:53	30/05/2023 12:10	647.28	0.71	15.6	8.1	
OCC/23B/NE1S23	138 - 146 Morrel Av	03/05/2023 12:55	30/05/2023 12:25	647.50	0.64	14.1	7.3	
OCC/23B/NE1S24	189 Divinity Rd							Missing
OCC/23B/NE1S25	90 Valentia Rd	03/05/2023 13:01	30/05/2023 12:50	647.82	0.48	10.7	5.6	
OCC/23B/NE1S26	Hinksey hill/ Headington Rd	03/05/2023 13:10	30/05/2023 13:15	648.08	3.22	71.3	37.1	
OCC/23B/NE1S27	Marston Rd, St Michaels Primary School	03/05/2023 13:19	30/05/2023 13:30	648.18	0.46	10.1	5.3	



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/NE1S28	189 Headley Way	03/05/2023 13:23	30/05/2023 13:35	648.20	0.84	18.7	9.7	
OCC/23B/NE1S29	7 Woodlands Rd	03/05/2023 13:25	30/05/2023 13:40	648.25	0.53	11.8	6.1	
OCC/23B/NE1S30	21 Latimer Rd	03/05/2023 13:30	30/05/2023 13:45	648.25	0.56	12.4	6.4	
OCC/23B/NE1S31	Ruskin Hall/ Dunstan Rd	03/05/2023 13:36	30/05/2023 13:50	648.23	0.74	16.3	8.5	
OCC/23B/NE1S32	19 Wharton Rd	03/05/2023 13:40	30/05/2023 14:00	648.33	0.49	10.8	5.6	
OCC/23B/NE1S33	255 London Rd/ Gladstone Rd	03/05/2023 13:46	30/05/2023 14:20	648.57	1	22.2	11.5	
OCC/23B/NE1S34	25 Gladstone Rd	03/05/2023 13:51	30/05/2023 14:40	648.82	0.44	9.7	5	
OCC/23B/NE1S35	JR	03/05/2023 14:04	30/05/2023 15:00	648.93	1.05	23.3	12.1	
OCC/23B/NE1S36	Marston Ferry Rd/ Cherwell Drive	03/05/2023 14:10	30/05/2023 15:10	649.00	0.41	9.1	4.7	





Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m <sup>-3</sup>	ppb	Comments
OCC/23B/NE1S37	39 Marsh Lane	03/05/2023 14:14	30/05/2023 15:15	649.02	0.79	17.4	9	
OCC/23B/NE1S38	North way/ Cutteslowe Park	03/05/2023 14:18	30/05/2023 15:20	649.03	1.23	27.2	14.1	
OCC/23B/NE1S39	Northern bypass/ Phillips Tyres							Missing
OCC/23B/NE1S40	Horsparth driftway/ Agwar stone Rd	03/05/2023 14:37	30/05/2023 15:30	648.88	0.85	18.8	9.8	
OCC/23B/NE1S41	126 The Slade	03/05/2023 14:40	30/05/2023 16:10	649.50	1.06	23.4	12.2	
OCC/23B/NE1S42	109 Old Rd	03/05/2023 14:46	30/05/2023 16:20	649.57	0.6	13.3	6.9	
OCC/23B/NE1S43	47 Quarry Rd							Missing
OCC/23B/NE1S44	4 Quarry School	03/05/2023 14:56	30/05/2023 16:35	649.65	0.53	11.6	6	
OCC/23B/NE1S45	99 Oliver Rd	03/05/2023 15:17	30/05/2023 16:40	649.38	1.63	36.1	18.8	





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/NE1S46	Brasenose Farm (Eastern bypass)	03/05/2023 15:25	30/05/2023 16:50	649.42	2.42	53.4	27.8	
OCC/23B/NE1S47	22 Garsington Rd	03/05/2023 15:35	30/05/2023 16:55	649.33	0.93	20.5	10.7	
OCC/23B/NE1S48	St Christophers Primary School	03/05/2023 15:43	30/05/2023 17:05	649.37	0.43	9.5	4.9	
OCC/23B/NE1S49	119 Barns Rd	03/05/2023 15:48	30/05/2023 17:15	649.45	0.78	17.2	9	
OCC/23B/NE1S50	Oxford Rd/ Newman Rd	03/05/2023 16:09	30/05/2023 17:25	649.27	1.73	38.3	19.9	
OCC/23B/NE1S51	A34 Wolvercote Meadows	03/05/2023 16:24	30/05/2023 17:40	649.27	1.74	38.5	20	
OCC/23B/NE1S52	A34 Wolvercote Meadows 2							Missing
OCC/23B/NE1S53	67 Southern bypass	03/05/2023 16:33	30/05/2023 18:00	649.45	2.21	48.9	25.4	
OCC/23B/NE1S54	Church Cowley Rd	03/05/2023 16:02	30/05/2023 17:30	649.47	1.16	25.6	13.3	

