

LABORATORY ANALYSIS REPORT

NITROGEN DIOXIDE IN DIFFUSION TUBES BY U.V. SPECTROPHOTOMETRY

REPORT NUMBER 45820

BOOKING IN REFERENCE No E 4015

CUSTOMER South Holland District Council
Council Offices, Priory Road
Spalding, Lincolnshire PE11 2XE

DATE SAMPLES RECEIVED 08/08/2011

Jul-11		Exposure Data		Time (hr.)	$\mu\text{g}/\text{m}^3$		TOTAL μG NO_2
Tube Number		Date On	Date Off		*	ppb *	
1		27/06/2011	01/08/2011	840.17	8.58	4.48	0.52
2		01/07/2011	05/08/2011	838.37	11.64	6.07	0.71
3		01/07/2011	05/08/2011	838.67	11.29	5.89	0.69
4		01/07/2011	05/08/2011	838.67	8.56	4.47	0.52
5		30/06/2011	03/08/2011	817.50	15.47	8.07	0.92
6		01/07/2011	05/08/2011	838.25	28.26	14.75	1.72
7		01/07/2011	05/08/2011	838.50	17.62	9.20	1.07
8		01/07/2011	05/08/2011	838.33	7.62	3.97	0.46
9		01/07/2011	05/08/2011	838.33	9.34	4.87	0.57
10		01/07/2011	05/08/2011	838.33	8.22	4.29	0.50
11		01/07/2011	05/08/2011	838.50	18.90	9.87	1.15
13		30/06/2011	03/08/2011	818.75	22.01	11.49	1.31
14		01/07/2011	05/08/2011	840.73	22.26	11.62	1.36
15		30/06/2011	03/08/2011	818.83	29.14	15.21	1.73
16		30/06/2011	03/08/2011	818.75	10.77	5.62	0.64
17		27/06/2011	05/08/2011	936.00	21.20	11.06	1.44
18		27/06/2011	01/08/2011	840.25	21.81	11.38	1.33
12 Travel Blank				936.00	0.73	0.38	0.05
Lab Blank				936.00	0.28	0.15	0.019

Comment: Results are not blank subtracted

The Diffusion Tubes have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures calculations and assessments involving the exposure procedures and periods provided by the client are not within the scope of our UKAS accreditation. Those results obtained using exposure data shall be indicated by an asterisk. Any queries concerning the data in this report should be directed to the Laboratory Manager Gradko International Ltd.

Form LQF32 Issue 2

Report Number 45820

Page 1 of 2

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

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Results have been corrected to a temperature of 293K (20C)

Overall M.O.U.

7.3% +/-

Tube Preparation : 50% TEA /Acetone

Analysed on UVS03 Cecil

Limit of
Detection

0.087 μ gNO₂

Analyst Name

J. Samuel

Date of Analysis

11/08/2011

Date of Report

12/08/2011

Analysis carried out in accordance with documented in-house Laboratory Method GLM7


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Page 2 of 2

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