

St. Martins House, 77 Wales Street Winchester, Hampshire SO23 0RH  
tel.: 01962 860331 fax: 01962 841339 e-mail: diffusion@gradko.co.uk

## LABORATORY ANALYSIS REPORT

### NITROGEN DIOXIDE IN DIFFUSION TUBES BY U.V.SPECTROPHOTOMETRY

**REPORT NUMBER** F 4895R  
**BOOKING IN REFERENCE No** F 4895  
**CUSTOMER** South Holland District Council  
Council Offices, Priory Road  
Spalding, Lincolnshire PE11 2XE  
**DATE SAMPLES RECEIVED** 07/08/2012

Tube Number	Exposure Data		Time (hr.)	$\mu\text{g}/\text{m}^3$ *	ppb *	TOTAL $\mu\text{G NO}_2$
	Date On	Date Off				
Jul-01	26/06/2012	02/08/2012	889.50	8.26	4.31	0.53
Jul-02	29/06/2012	02/08/2012	814.83	8.53	4.45	0.51
Jul-03	29/06/2012	01/08/2012	792.42	12.22	6.38	0.70
Jul-04	29/06/2012	02/08/2012	815.00	8.27	4.32	0.49
Jul-05	27/06/2012	31/07/2012	814.50	13.29	6.94	0.79
Jul-06	29/06/2012	02/08/2012	814.90	15.84	8.27	0.94
Jul-07	29/06/2012	02/08/2012	814.95	14.79	7.72	0.88
Jul-08	29/06/2012	02/08/2012	817.50	6.26	3.27	0.37
Jul-09	29/06/2012	02/08/2012	817.50	7.37	3.85	0.44
Jul-10	29/06/2012	02/08/2012	817.50	6.45	3.36	0.38
Jul-11	29/06/2012	02/08/2012	817.22	15.71	8.20	0.93
Jul-13	27/06/2012	31/07/2012	816.75	19.66	10.26	1.17
Jul-14	29/06/2012	02/08/2012	814.92	18.44	9.62	1.09
Jul-15	28/06/2012	31/07/2012	792.83	27.07	14.13	1.56
Jul-16	27/06/2012	31/07/2012	814.17	9.55	4.98	0.57
Jul-17	29/06/2012	01/08/2012	792.42	20.40	10.65	1.18
Jul-18	29/06/2012	31/07/2012	769.58	19.95	10.41	1.12
Jul-12 Travel Blank			817.50	0.27	0.14	0.02
Lab Blank			817.50	0.25	0.13	0.015

**Comment: Results are not blank subtracted**

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

**Overall M.O.U** 7.8% +/-

Tube Preparation : 50% TEA /Acetone Analysed on UV04 Camspec M550

**Limit of Detection** 0.060 $\mu\text{gNO}_2$

**Analyst Signature**

**Analyst Name** B. Gregory

**Date of Analysis** 14/08/2012

**Date of Report** 17/08/2012

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

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 F 4895R

Page 1 of 1

**REPORT OFFICIALLY CHECKED**

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