

## LABORATORY ANALYSIS REPORT

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

**REPORT NUMBER** F 4115R  
**BOOKING IN REFERENCE No** F 4115  
**DESPATCH NOTE No** SOR 009246  
**CUSTOMER** South Holland District Council  
Council Offices, Priory Road  
Spalding, Lincolnshire PE11 2XE

**DATE SAMPLES RECEIVED** 02/07/2012

Tube Number	Exposure Data			$\mu\text{g}/\text{m}^3$ *	ppb *	TOTAL $\mu\text{G NO}_2$
	Date On	Date Off	Time (hr.)			
Jun-01	29/05/2012	26/06/2012	669.50	6.88	3.59	0.34
Jun-02	01/06/2012	29/06/2012	672.00	7.94	4.15	0.39
Jun-04	01/06/2012	29/06/2012	672.00	7.10	3.71	0.35
Jun-05	30/05/2012	27/06/2012	668.58	10.91	5.69	0.53
Jun-06	01/06/2012	29/06/2012	672.02	15.97	8.34	0.78
Jun-07	01/06/2012	29/06/2012	671.97	12.63	6.59	0.62
Jun-08	01/06/2012	29/06/2012	671.92	5.96	3.11	0.29
Jun-09	01/06/2012	29/06/2012	671.92	5.63	2.94	0.28
Jun-10	01/06/2012	29/06/2012	671.92	6.08	3.17	0.30
Jun-11	01/06/2012	29/06/2012	672.12	15.91	8.30	0.78
Jun-13	30/05/2012	27/06/2012	670.08	17.95	9.37	0.87
Jun-14	01/06/2012	29/06/2012	672.00	18.98	9.91	0.93
Jun-15	30/05/2012	28/06/2012	693.75	2.32	1.21	0.12
Jun-16	30/05/2012	27/06/2012	668.83	8.23	4.29	0.40
Jun-17	01/06/2012	29/06/2012	673.08	18.58	9.70	0.91
Jun-18	01/06/2012	29/06/2012	668.75	18.06	9.43	0.88
Jun-12 Travel Blank			693.75	0.52	0.27	0.03
Lab Blank			693.75	0.06	0.03	0.003

**Comment: Results are not blank subtracted**  
**Results have been corrected to a temperature of 293 K (20°)**

**Overall M.O.U** 5.2% +/-  
**Tube Preparation: 50% TEA /Acetone** Analysed on UV05 Camspec M550

**Limit of Detection** 0.07  $\mu\text{gNO}_2$

**Analyst Signature**

**Analyst Name** M. Witek

**Date of Analysis** 09/07/2012

**Date of Report** 10/07/2012

**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.

**REPORT OFFICIALLY CHECKED**

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