

## LABORATORY ANALYSIS REPORT

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

**REPORT NUMBER** F 1629R  
**BOOKING IN REFERENCE No** F 1629  
**DESPATCH NOTE No** SOR 006446

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

**DATE SAMPLES RECEIVED** 08/03/2012

Tube Number	Exposure Data			μg/m³ *	ppb *	TOTAL μG NO₂
	Date On	Date Off	Time (hr.)			
SHDC						
Feb-01	31/01/2012	29/02/2012	692.42	17.94	9.37	0.90
Feb-02	01/02/2012	28/02/2012	648.75	19.77	10.32	0.93
Feb-04	01/02/2012	28/02/2012	648.75	20.00	10.44	0.94
Feb-05	31/01/2012	02/03/2012	741.33	19.62	10.24	1.06
Feb-06	01/02/2012	28/02/2012	648.73	24.35	12.71	1.15
Feb-07	01/02/2012	28/02/2012	648.75	22.69	11.84	1.07
Feb-08	01/02/2012	28/02/2012	648.83	17.09	8.92	0.81
Feb-09	01/02/2012	28/02/2012	648.83	15.97	8.33	0.75
Feb-10	01/02/2012	28/02/2012	648.83	17.37	9.06	0.82
Feb-11	01/02/2012	28/02/2012	648.75	22.40	11.69	1.06
Feb-13	02/02/2012	02/03/2012	696.58	30.93	16.14	1.57
Feb-14	01/02/2012	28/02/2012	648.83	36.09	18.84	1.70
Feb-15	02/02/2012	02/03/2012	696.58	34.57	18.04	1.75
Feb-16	02/02/2012	02/03/2012	696.42	19.90	10.38	1.01
Feb-17	03/02/2012	02/03/2012	671.50	29.42	15.36	1.44
Feb-18	31/01/2012	29/02/2012	692.47	28.65	14.95	1.44
Travel Blank Feb-12			741.33	0.52	0.27	0.03
Lab Blank			741.33	0.26	0.14	0.014

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

**Overall M.O.U** 7.3 +/- %  
**Tube Preparation : 50% TEA /Acetone** Analysed on UVS03 Cecil

**Limit of Detection** 0.087  $\mu\text{gNO}_2$

**Analyst Name** J. Samuel

**Date of Analysis** 15/03/2012

**Date of Report** 20/03/2012

**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*.....  
L. Gates, Laboratory Supervisor