

## LABORATORY ANALYSIS REPORT

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

REPORT NUMBER K05261R

BOOKING IN REFERENCE K05261

DESPATCH NOTE 31432

CUSTOMER Phlorum Limited Attn: PAUL HAYWARD  
Unit 12, Hunns Mere Way  
Woodingdean  
Brighton  
BN2 6AH

DATE SAMPLES RECEIVED 23/08/2016

JOB NUMBER 6254-S

Location	Sample Number	Exposure Data		Time (hr.)	$\mu\text{g}/\text{m}^3$ *	ppb *	TOTAL
		Date On	Date Off				$\mu\text{g NO}_2$
1	755560	22/07/2016	19/08/2016	674.92	25.98	13.56	1.27
1	755561	22/07/2016	19/08/2016	674.92	24.50	12.79	1.20
1	755562	22/07/2016	19/08/2016	674.92	29.02	15.15	1.42
2	755563	22/07/2016	19/08/2016	674.90	24.31	12.69	1.19
2	755564	22/07/2016	19/08/2016	674.90	26.58	13.87	1.30
3	755566	22/07/2016	19/08/2016	674.87	22.98	12.00	1.13
3	755570	22/07/2016	19/08/2016	674.87	24.21	12.63	1.19
3	755571	22/07/2016	19/08/2016	674.87	22.58	11.78	1.11
4	755572	22/07/2016	19/08/2016	674.38	37.90	19.78	1.86
4	755573	22/07/2016	19/08/2016	674.38	41.36	21.59	2.03
4	755574	22/07/2016	19/08/2016	674.38	36.79	19.20	1.80
5	755575	22/07/2016	19/08/2016	674.47	12.13	6.33	0.59
5	755576	22/07/2016	19/08/2016	674.47	13.67	7.13	0.67
5	755577	22/07/2016	19/08/2016	674.47	12.38	6.46	0.61
6	755578	22/07/2016	19/08/2016	673.08	26.39	13.77	1.29
6	755579	22/07/2016	19/08/2016	673.08	26.84	14.01	1.31
6	755580	22/07/2016	19/08/2016	673.08	26.57	13.87	1.30
Travel Blank	755567			674.92	0.14	0.07	0.01
Travel Blank	755568			674.92	0.08	0.04	0.00
Travel Blank	755569			674.92	0.09	0.05	0.00
Laboratory Blank				674.92	0.14	0.07	0.007

**Comment: Results are not blank subtracted**

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

Overall M.U. 7.8% +/-

Limit of Detection 0.017 $\mu\text{gNO}_2$

Tube Preparation : 20% TEA / Water

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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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L. Gates, Laboratory Manager

## LABORATORY ANALYSIS REPORT

Analysed on UV 04 Camspec M550

**Analyst Name** Jess Crow

**Date of Analysis** 31/08/2016

**Date of Report** 01/09/2016

**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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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## LABORATORY ANALYSIS REPORT

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

**REPORT NUMBER** K05896R

**BOOKING IN REFERENCE** K05896

**DESPATCH NOTE** 31457

**CUSTOMER** Phlorum Limited Attn: PAUL HAYWARD  
Unit 12, Hunns Mere Way  
Woodingdean  
Brighton  
BN2 6AH

**DATE SAMPLES RECEIVED** 21/09/2016

**JOB NUMBER** 6254.5

Location	Sample Number	Exposure Data		Time (hr.)	$\mu\text{g}/\text{m}^3$ *	ppb *	TOTAL
		Date On	Date Off				$\mu\text{g NO}_2$
1	767326	19/08/2016	17/09/2016	696.42	35.52	18.54	1.80
1	767344	19/08/2016	17/09/2016	696.42	33.48	17.47	1.69
1	767325	19/08/2016	17/09/2016	696.42	37.56	19.60	1.90
2	767341	19/08/2016	17/09/2016	696.40	33.05	17.25	1.67
2	767342	19/08/2016	17/09/2016	696.40	33.55	17.51	1.70
2	767343	19/08/2016	17/09/2016	696.40	32.67	17.05	1.65
3	767340	19/08/2016	17/09/2016	696.38	29.56	15.43	1.50
3	767339	19/08/2016	17/09/2016	696.38	32.54	16.98	1.65
3	767338	19/08/2016	17/09/2016	696.38	30.78	16.06	1.56
4	767327	19/08/2016	17/09/2016	696.58	46.95	24.51	2.38
4	767328	19/08/2016	17/09/2016	696.58	44.05	22.99	2.23
5	767348	19/08/2016	17/09/2016	696.42	15.46	8.07	0.78
5	767347	19/08/2016	17/09/2016	696.42	17.76	9.27	0.90
5	767349	19/08/2016	17/09/2016	696.42	15.28	7.97	0.77
6	767330	19/08/2016	17/09/2016	696.92	35.68	18.62	1.81
6	767329	19/08/2016	17/09/2016	696.92	35.34	18.44	1.79
6	767331	19/08/2016	17/09/2016	696.92	33.93	17.71	1.72
BLANK	767332	19/08/2016	17/09/2016	696.00	0.04	0.02	0.00
BLANK	767333	19/08/2016	17/09/2016	696.00	0.05	0.03	0.00
BLANK	767334	19/08/2016	17/09/2016	696.00	0.16	0.08	0.01
Laboratory Blank				696.92	0.10	0.05	0.005

**Comment: Results are not blank subtracted**

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

**Overall M.U.** 5.2% +/-

**Limit of Detection** 0.010 $\mu\text{gNO}_2$

Tube Preparation : 20% TEA / Water

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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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## LABORATORY ANALYSIS REPORT

Analysed on UV05 Camspec M550

**Analyst Name**

Charlotte Grove

**Date of Analysis**

23/09/2016

**Date of Report**

23/09/2016

**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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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## LABORATORY ANALYSIS REPORT

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

**REPORT NUMBER** K06661R  
**BOOKING IN REFERENCE** K06661  
**DESPATCH NOTE** 31456  
**CUSTOMER** Phlorum Limited Attn: PAUL HAYWARD  
 Unit 12, Hunns Mere Way  
 Woodingdean  
 Brighton  
 BN2 6AH  
**DATE SAMPLES RECEIVED** 25/10/2016  
**JOB NUMBER** 6254.5

Location	Sample Number	Exposure Data		Time (hr.)	µg/m <sup>3</sup> *	ppb *	TOTAL
		Date On	Date Off				µg NO <sub>2</sub>
1	783371	17/09/2016	21/10/2016	815.77	30.85	16.10	1.83
1	783372	17/09/2016	21/10/2016	815.77	30.47	15.90	1.81
2	783374	17/09/2016	21/10/2016	815.78	27.56	14.38	1.63
2	783375	17/09/2016	21/10/2016	815.78	26.63	13.90	1.58
3	783377	17/09/2016	21/10/2016	815.82	25.78	13.45	1.53
3	783381	17/09/2016	21/10/2016	815.82	26.86	14.02	1.59
3	783382	17/09/2016	21/10/2016	815.82	27.39	14.29	1.62
4	783384	17/09/2016	21/10/2016	815.82	36.73	19.17	2.18
4	783385	17/09/2016	21/10/2016	815.82	37.38	19.51	2.22
5	783386	17/09/2016	21/10/2016	815.32	21.81	11.38	1.29
5	783387	17/09/2016	21/10/2016	815.32	22.10	11.53	1.31
5	783388	17/09/2016	21/10/2016	815.32	21.52	11.23	1.28
6	783389	17/09/2016	21/10/2016	815.45	39.74	20.74	2.36
6	783390	17/09/2016	21/10/2016	815.45	40.41	21.09	2.39
6	783391	17/09/2016	21/10/2016	815.45	37.63	19.64	2.23
BLANK	783378			815.82	0.08	0.04	0.00
BLANK	783379			815.82	0.03	0.02	0.00
BLANK	783380			815.82	0.05	0.03	0.00
Laboratory Blank				815.82	0.15	0.08	0.009

**Comment: Results are not blank subtracted**

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

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

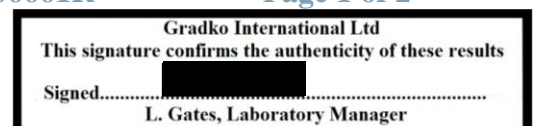
**Limit of Detection** 0.017µgNO<sub>2</sub>

**Tube Preparation :** 20% TEA / Water

Analysed on UV 04 Camspec M550

**Analyst Name** Ben Whitmarsh

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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.



## LABORATORY ANALYSIS REPORT

Date of Analysis

31/10/2016

Date of Report

31/10/2016

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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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L. Gates, Laboratory Manager

## LABORATORY ANALYSIS REPORT

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

**REPORT NUMBER** K07750R  
**BOOKING IN REFERENCE** K07750  
**DESPATCH NOTE** 31459  
**CUSTOMER** Phlorum Limited Attn: Paul Hayward  
Unit 12, Hunns Mere Way  
Woodingdean  
Brighton  
BN2 6AH

**DATE SAMPLES RECEIVED** 06/12/2016  
**JOB NUMBER** 6254.5

Location	Sample Number	Exposure Data		Time (hr.)	µg/m <sup>3</sup> *	ppb *	TOTAL µg NO <sub>2</sub>
		Date On	Date Off				
1	796877	21/10/2016	15/11/2016	603.12	40.29	21.03	1.77
1	796878	21/10/2016	15/11/2016	603.12	41.81	21.82	1.83
1	796879	21/10/2016	15/11/2016	603.12	41.78	21.81	1.83
2	796880	21/10/2016	15/11/2016	603.17	38.63	20.16	1.69
2	796881	21/10/2016	15/11/2016	603.17	36.94	19.28	1.62
2	796891	21/10/2016	15/11/2016	603.17	40.82	21.30	1.79
3	796888	21/10/2016	15/11/2016	603.15	37.34	19.49	1.64
3	796889	21/10/2016	15/11/2016	603.15	38.99	20.35	1.71
3	796890	21/10/2016	15/11/2016	603.15	36.35	18.97	1.59
4	796875	21/10/2016	15/11/2016	603.07	46.05	24.04	2.02
4	796876	21/10/2016	15/11/2016	603.07	46.64	24.34	2.04
5	796886	21/10/2016	15/11/2016	603.60	28.92	15.10	1.27
5	796887	21/10/2016	15/11/2016	603.60	29.44	15.37	1.29
5	796885	21/10/2016	15/11/2016	603.60	27.92	14.57	1.22
6	796896**	21/10/2016	15/11/2016	604.13	74.21	38.73	3.26
6	796895**	21/10/2016	15/11/2016	604.13	75.28	39.29	3.31
6	796894**	21/10/2016	15/11/2016	604.13	72.95	38.08	3.20
BLANK	796872			604.13	0.13	0.07	0.01
BLANK	796873			604.13	0.14	0.07	0.01
BLANK	796874			604.13	0.15	0.08	0.01
Laboratory Blank				604.13	0.11	0.06	0.005

**Comment: Results are not blank subtracted**

**Tubes marked \*\* were diluted to read within our UKAS accredited calibration range.**

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

**Overall M.U.** ±7.8%

**Tube Preparation :** 20% TEA / Water

**Analyst Name** Blazej Fiser

**Limit of Detection** 0.010 µgNO<sub>2</sub>

Analysed on UV 08 Camspec M550

**Report Checked By** Adam Robinson

**Date of Analysis** 20/12/2016

**Date of Report** 20/12/2016

**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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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L. Gates, Laboratory Manager



## LABORATORY ANALYSIS REPORT

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

**REPORT NUMBER** Amendment to report L00145R  
**BOOKING IN REFERENCE** L00145  
**DESPATCH NOTE** 31460  
**CUSTOMER** Phlorum Limited Attn: Paul Beckett  
Unit 12, Hunns Mere Way  
Woodingdean  
Brighton  
BN2 6AH  
**DATE SAMPLES RECEIVED** 04/01/2017  
**JOB NUMBER** 6284

Location	Sample Number	Exposure Data			Time (hr.)	µg/m <sup>3</sup> *	ppb *	TOTAL µg NO <sub>2</sub>
		Date On	Date Off					
1	815736	15/11/2016	19/12/2016	811.30	42.82	22.35	2.52	
1	815737	15/11/2016	19/12/2016	811.30	43.32	22.61	2.55	
1	815738	15/11/2016	19/12/2016	811.30	42.41	22.14	2.50	
2	815739	15/11/2016	19/12/2016	811.15	36.50	19.05	2.15	
2	815740	15/11/2016	19/12/2016	811.15	37.91	19.79	2.24	
3	815742	15/11/2016	19/12/2016	811.05	32.10	16.75	1.89	
3	815723	15/11/2016	19/12/2016	811.05	38.75	20.22	2.28	
3	815724	15/11/2016	19/12/2016	811.05	37.47	19.56	2.21	
4	815725	15/11/2016	19/12/2016	811.45	39.86	20.81	2.35	
4	815726	15/11/2016	19/12/2016	811.45	45.22	23.60	2.67	
6	815733	02/12/2016	19/12/2016	402.47	53.88	28.12	1.58	
6	815734	02/12/2016	19/12/2016	402.47	55.14	28.78	1.61	
6	815735	02/12/2016	19/12/2016	402.47	53.89	28.13	1.58	
Travel Blank	815730			811.45	0.16	0.08	0.01	
Travel Blank	815731			811.45	0.20	0.10	0.01	
Travel Blank	815732			811.45	0.13	0.07	0.01	
Laboratory Blank				811.45	0.15	0.08	0.009	

**Comment: Results are not blank subtracted**  
Results have been corrected to a temperature of 293 K (20 °)  
**Report amended to correct start dates for location 6.**

<b>Overall M.U.</b>	±7.8%	<b>Limit of Detection</b>	0.017µgNO <sub>2</sub>
<b>Tube Preparation</b>	: 20% TEA / Water	<b>Analysed on</b>	UV 04 Camspec M550
<b>Analyst Name</b>	Jess Crow	<b>Report Checked By</b>	Linda Gates
<b>Date of Analysis</b>	12/01/2017	<b>Date of Report</b>	24/01/2017

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

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L. Gates, Laboratory Manager



## LABORATORY ANALYSIS REPORT

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

**REPORT NUMBER** L00671R  
**BOOKING IN REFERENCE** L00671  
**DESPATCH NOTE** 31461  
**CUSTOMER** Phlorum Limited Attn: PAUL HAYWARD  
Unit 12, Hunns Mere Way  
Woodingdean  
Brighton  
BN2 6AH  
**DATE SAMPLES RECEIVED** 18/01/2017  
**JOB NUMBER** 6254

Location	Sample Number	Exposure Data			Time (hr.)	µg/m <sup>3</sup> *	ppb *	TOTAL µg NO <sub>2</sub>
		Date On	Date Off					
1	828513	19/12/2016	16/01/2017	672.22	44.54	23.25	2.18	
1	828514	19/12/2016	16/01/2017	672.22	48.02	25.06	2.35	
1	828515	19/12/2016	16/01/2017	672.22	45.95	23.98	2.24	
2	828516	19/12/2016	16/01/2017	672.30	41.09	21.45	2.01	
2	828517	19/12/2016	16/01/2017	672.30	40.42	21.10	1.98	
3	828519	19/12/2016	16/01/2017	672.38	40.25	21.01	1.97	
3	828520	19/12/2016	16/01/2017	672.38	40.96	21.38	2.00	
3	828521	19/12/2016	16/01/2017	672.38	38.34	20.01	1.87	
4	828522	19/12/2016	16/01/2017	672.08	39.99	20.87	1.95	
4	828523	19/12/2016	16/01/2017	672.08	51.41	26.83	2.51	
4	828524	19/12/2016	16/01/2017	672.08	52.23	27.26	2.55	
5	828525	19/12/2016	16/01/2017	672.30	25.47	13.29	1.24	
5	828526	19/12/2016	16/01/2017	672.30	23.07	12.04	1.13	
5	828527	19/12/2016	16/01/2017	672.30	25.52	13.32	1.25	
6	828528	19/12/2016	16/01/2017	672.30	32.48	16.95	1.59	
6	828529	19/12/2016	16/01/2017	672.30	35.07	18.30	1.71	
6	828530	19/12/2016	16/01/2017	672.30	33.59	17.53	1.64	
BLANK	828531			672.38	0.24	0.12	0.01	
BLANK	828532			672.38	0.16	0.08	0.01	
BLANK	828533			672.38	0.24	0.13	0.01	
Laboratory Blank				672.38	0.18	0.10	0.009	

**Comment: Results are not blank subtracted**

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

**Overall M.U.** ±7.8%

**Tube Preparation :** 20% TEA / Water

**Analyst Name** Joanna Kowalewska

**Date of Analysis** 31/01/2017

**Limit of Detection** 0.010 µgNO<sub>2</sub>

Analysed on UV 08 Camspec M550

**Report Checked By** Adam Robinson

**Date of Report** 31/01/2017

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

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## LABORATORY ANALYSIS REPORT

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

**REPORT NUMBER** L01497R  
**BOOKING IN REFERENCE** L01497  
**DESPATCH NOTE** 34100  
**CUSTOMER** Phlorum Limited Attn: Lauren Grows  
Unit 12, Hunns Mere Way  
Woodingdean  
Brighton  
BN2 6AH  
**DATE SAMPLES RECEIVED** 23/02/2017  
**JOB NUMBER** 6254

Location	Sample Number	Exposure Data			Time (hr.)	µg/m <sup>3</sup> *	ppb *	TOTAL µg NO <sub>2</sub>
		Date On	Date Off					
1	841588	16/01/2017	21/02/2017		865.67	42.82	22.35	2.69
1	841589	16/01/2017	21/02/2017		865.67	39.79	20.77	2.50
1	841590	16/01/2017	21/02/2017		865.67	37.57	19.61	2.36
2	841591	16/01/2017	21/02/2017		865.68	35.88	18.72	2.26
2	841592	16/01/2017	21/02/2017		865.68	37.97	19.82	2.39
2	841593	16/01/2017	21/02/2017		865.68	35.47	18.51	2.23
3	841594	16/01/2017	21/02/2017		865.68	41.67	21.75	2.62
3	841595	16/01/2017	21/02/2017		865.68	34.69	18.11	2.18
3	841596	16/01/2017	21/02/2017		865.68	37.57	19.61	2.36
4	841597	16/01/2017	21/02/2017		865.92	42.43	22.14	2.67
4	841598	16/01/2017	21/02/2017		865.92	43.99	22.96	2.77
5	841599	16/01/2017	21/02/2017		865.68	29.34	15.31	1.85
5	841600	16/01/2017	21/02/2017		865.68	31.71	16.55	1.99
5	841601	16/01/2017	21/02/2017		865.68	0.50	0.26	0.03
6	841602**	16/01/2017	21/02/2017		866.52	51.81	27.04	3.26
6	841603**	16/01/2017	21/02/2017		866.52	53.48	27.91	3.37
6	841604	16/01/2017	21/02/2017		866.52	45.90	23.96	2.89
Blank	841585				866.52	0.10	0.05	0.01
Blank	841586				866.52	0.22	0.12	0.01
Blank	841587				866.52	0.09	0.05	0.01
Laboratory Blank					866.52	0.03	0.02	0.002

**Comment: Results are not blank subtracted**

**Tube 841601 contained water droplets. Result may be compromised.**

**Tubes marked \*\* were diluted to read within our UKAS accredited calibration range.**

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

**Overall M.U.** ±7.8%

**Tube Preparation :** 20% TEA / Water

**Analyst Name** Zoe Munday

**Limit of Detection** 0.010µgNO<sub>2</sub>

Analysed on UV05 Camspec M550

**Report Checked By** Adam Robinson

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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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L. Gates, Laboratory Manager

## LABORATORY ANALYSIS REPORT

**Date of Analysis**

27/02/2017

**Date of Report**

27/02/2017

**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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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## LABORATORY ANALYSIS REPORT

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

**REPORT NUMBER** L02211R  
**BOOKING IN REFERENCE** L02211  
**DESPATCH NOTE** 34101  
**CUSTOMER** Phlorum Limited Attn: Lauren Grows  
Unit 12, Hunns Mere Way  
Woodingdean  
Brighton  
BN2 6AH  
**DATE SAMPLES RECEIVED** 24/03/2017  
**JOB NUMBER** 6254

Location	Sample Number	Exposure Data			Time (hr.)	µg/m <sup>3</sup> *	ppb *	TOTAL µg NO <sub>2</sub>
		Date On	Date Off					
1	858721	21/02/2017	22/03/2017		696.55	46.88	24.47	2.37
1	858722	21/02/2017	22/03/2017		696.55	47.63	24.86	2.41
1	858723	21/02/2017	22/03/2017		696.55	44.06	22.99	2.23
2	858711	21/02/2017	22/03/2017		696.72	33.03	17.24	1.67
2	858724	21/02/2017	22/03/2017		696.72	39.29	20.50	1.99
2	858725	21/02/2017	22/03/2017		696.72	40.12	20.94	2.03
3	858726	21/02/2017	22/03/2017		696.75	31.61	16.50	1.60
3	858727	21/02/2017	22/03/2017		696.75	32.30	16.86	1.64
3	858728	21/02/2017	22/03/2017		696.75	30.71	16.03	1.56
4	858716	21/02/2017	22/03/2017		696.50	47.49	24.79	2.40
4	858715	21/02/2017	22/03/2017		696.50	36.48	19.04	1.85
5	858714	21/02/2017	22/03/2017		696.17	14.66	7.65	0.74
5	858713	21/02/2017	22/03/2017		696.17	12.04	6.28	0.61
5	858712	21/02/2017	22/03/2017		696.17	10.57	5.52	0.54
6	858718	21/02/2017	22/03/2017		695.55	17.66	9.22	0.89
6	858719	21/02/2017	22/03/2017		695.55	18.74	9.78	0.95
6	858720	21/02/2017	22/03/2017		695.55	18.88	9.85	0.95
BLANK	858733				696.75	0.24	0.13	0.01
BLANK	858732				696.75	0.23	0.12	0.01
BLANK	858731				696.75	0.40	0.21	0.02
Laboratory Blank					696.75	0.10	0.05	0.005

**Comment: Results are not blank subtracted**

**Tube 858711 contained water droplets. Result may be compromised.**

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

**Overall M.U.** ±7.8%

Tube Preparation : 20% TEA / Water

**Analyst Name** Zoe Munday

**Date of Analysis** 29/03/2017

**Limit of Detection** 0.010µgNO<sub>2</sub>

Analysed on UV05 Camspec M550

**Report Checked By** Adam Robinson

**Date of Report** 29/03/2017

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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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## LABORATORY ANALYSIS REPORT

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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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## LABORATORY ANALYSIS REPORT

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

**REPORT NUMBER** L03037R  
**BOOKING IN REFERENCE** L03037  
**DESPATCH NOTE** 34102  
**CUSTOMER** Phlorum Limited Attn: Lauren Growns  
 Unit 12, Hunns Mere Way  
 Woodingdean  
 Brighton  
 BN2 6AH  
  
**DATE SAMPLES RECEIVED** 27/04/2017  
**JOB NUMBER** 62S4

Location	Sample Number	Exposure Data		Time (hr.)	$\mu\text{g}/\text{m}^3$ *	ppb *	TOTAL
		Date On	Date Off				$\mu\text{g NO}_2$
1	874855	22/03/2017	25/04/2017	813.78	35.50	18.53	2.10
1	874854	22/03/2017	25/04/2017	813.78	34.90	18.21	2.06
1	874853	22/03/2017	25/04/2017	813.78	31.14	16.25	1.84
2	874852	22/03/2017	25/04/2017	813.62	27.66	14.44	1.64
2	874851	22/03/2017	25/04/2017	813.62	28.20	14.72	1.67
2	874850	22/03/2017	25/04/2017	813.62	29.05	15.16	1.72
3	874849	22/03/2017	25/04/2017	813.57	27.22	14.21	1.61
3	874867	22/03/2017	25/04/2017	813.57	29.17	15.22	1.72
3	874868	22/03/2017	25/04/2017	813.57	30.27	15.80	1.79
5	874858	22/03/2017	25/04/2017	813.73	11.76	6.14	0.70
5	874857	22/03/2017	25/04/2017	813.73	16.30	8.51	0.96
5	874856	22/03/2017	25/04/2017	813.73	10.36	5.41	0.61
6	874866	22/03/2017	25/04/2017	814.55	25.43	13.27	1.51
6	874865	22/03/2017	25/04/2017	814.55	27.98	14.60	1.66
6	874864	22/03/2017	25/04/2017	814.55	27.82	14.52	1.65
B	858730			814.55	0.07	0.04	0.00
B	858729			814.55	0.10	0.05	0.01
B	858734			814.55	0.10	0.05	0.01
Laboratory Blank				814.55	0.15	0.08	0.009

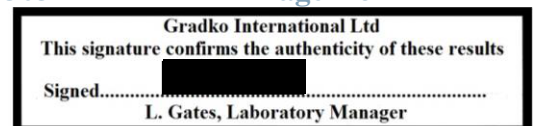
**Comment: Results are not blank subtracted**

**Tubes 874856 and 874858 contained water droplets. Result may be compromised.**

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

Overall M.U.  $\pm 7.8\%$  Limit of Detection  $0.010 \mu\text{gNO}_2$

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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.





## LABORATORY ANALYSIS REPORT

Analysed  
on UV05  
Camspec  
M550

Tube Preparation : 20% TEA / Water

**Analyst Name**  
Zoe Munday

**Report Checked By**

Duncan  
Wilson

**Date of Analysis** 08/05/2017

**Date of Report** 08/05/2017

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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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## LABORATORY ANALYSIS REPORT

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

**REPORT NUMBER** L03782R  
**BOOKING IN REFERENCE** L03782  
**DESPATCH NOTE** 35843  
**CUSTOMER** Phlorum Limited Attn: Lauren Grows  
Unit 12, Hunns Mere Way  
Woodingdean  
Brighton  
BN2 6AH  
**DATE SAMPLES RECEIVED** 30/05/2017  
**JOB NUMBER** 6254\_S

Location	Sample Number	Exposure Data			Time (hr.)	µg/m <sup>3</sup> *	ppb *	TOTAL µg NO <sub>2</sub>
		Date On	Date Off					
1	888559	25/04/2017	24/05/2017	696.68	28.90	15.08	1.46	
1	888560	25/04/2017	24/05/2017	696.68	28.69	14.97	1.45	
1	888561	25/04/2017	24/05/2017	696.68	25.99	13.57	1.32	
2	888562	25/04/2017	24/05/2017	696.70	25.88	13.51	1.31	
2	888563	25/04/2017	24/05/2017	696.70	25.05	13.07	1.27	
2	888564	25/04/2017	24/05/2017	696.70	22.87	11.93	1.16	
3	888565	25/04/2017	24/05/2017	696.75	24.68	12.88	1.25	
3	888566	25/04/2017	24/05/2017	696.75	24.60	12.84	1.25	
3	888567	25/04/2017	24/05/2017	696.75	22.99	12.00	1.16	
4	888558	25/04/2017	24/05/2017	696.68	26.71	13.94	1.35	
4	888557	25/04/2017	24/05/2017	696.68	37.92	19.79	1.92	
4	888556	25/04/2017	24/05/2017	696.67	37.30	19.47	1.89	
5	888570	25/04/2017	24/05/2017	697.12	19.98	10.43	1.01	
5	888569	25/04/2017	24/05/2017	697.12	20.19	10.54	1.02	
5	888568	25/04/2017	24/05/2017	697.12	17.10	8.92	0.87	
6	888572	25/04/2017	24/05/2017	696.93	39.92	20.83	2.02	
6	888571	25/04/2017	24/05/2017	696.93	40.06	20.91	2.03	
6	888573	25/04/2017	24/05/2017	696.93	40.82	21.30	2.07	
B	815741			697.12	0.40	0.21	0.02	
B	767337			697.12	0.20	0.11	0.01	
B	767336			697.12	0.18	0.09	0.01	
Laboratory Blank				697.12	0.24	0.12	0.012	

**Comment: Results are not blank subtracted**

**Tube 888564 contained a spider. Result may be compromised.**

**Tube 888568 contained a spider & nest. Result may be compromised.**

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

**Overall M.U.** ±7.8%

Tube Preparation : 20% TEA / Water

**Limit of Detection** 0.017µgNO<sub>2</sub>

Analysed on UV 04 Camspec M550

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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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## LABORATORY ANALYSIS REPORT

<b>Analyst Name</b>	Toni Attrill	<b>Report Checked By</b>	Adam Robinson
<b>Date of Analysis</b>	07/06/2017	<b>Date of Report</b>	08/06/2017

**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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.  
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**Report Number L03782R**

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## LABORATORY ANALYSIS REPORT

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

**REPORT NUMBER** L04413R  
**BOOKING IN REFERENCE** L04413  
**DESPATCH NOTE** 35844  
**CUSTOMER** Phlorum Limited Attn: Lauren Grows  
Unit 12, Hunns Mere Way  
Woodingdean  
Brighton  
BN2 6AH  
**DATE SAMPLES RECEIVED** 22/06/2017  
**JOB NUMBER** 6254

Location	Sample Number	Exposure Data			Time (hr.)	µg/m <sup>3</sup> *	ppb *	TOTAL µg NO <sub>2</sub>
		Date On	Date Off					
1	904462	24/05/2017	20/06/2017		648.17	32.13	16.77	1.51
1	904463	24/05/2017	20/06/2017		648.17	32.06	16.73	1.51
1	904464	24/05/2017	20/06/2017		648.17	30.81	16.08	1.45
2	904458	24/05/2017	20/06/2017		648.02	24.09	12.57	1.13
2	904460	24/05/2017	20/06/2017		648.02	26.93	14.06	1.27
2	904461	24/05/2017	20/06/2017		648.02	22.25	11.61	1.05
3	904453	24/05/2017	20/06/2017		647.85	24.46	12.77	1.15
3	904454	24/05/2017	20/06/2017		647.85	4.40	2.30	0.21
3	904457	24/05/2017	20/06/2017		647.85	26.50	13.83	1.25
4	904465	24/05/2017	20/06/2017		648.33	30.34	15.84	1.43
4	904466	24/05/2017	20/06/2017		648.33	45.54	23.77	2.15
4	904467	24/05/2017	20/06/2017		648.33	46.77	24.41	2.20
5	904468	24/05/2017	20/06/2017		648.23	11.67	6.09	0.55
5	904469	24/05/2017	20/06/2017		648.23	11.24	5.87	0.53
5	904470	24/05/2017	20/06/2017		648.23	10.16	5.30	0.48
6	904471	24/05/2017	20/06/2017		648.43	29.94	15.63	1.41
6	904472	24/05/2017	20/06/2017		648.43	46.25	24.14	2.18
6	904473	24/05/2017	20/06/2017		648.43	28.12	14.67	1.33
BLANK	904474				648.43	0.93	0.49	0.04
BLANK	904475				648.43	0.41	0.21	0.02
BLANK	904476				648.43	0.40	0.21	0.02
Laboratory Blank					648.43	0.28	0.14	0.013

**Comment: Results are not blank subtracted**

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

**Overall M.U.** ±7.8%

Tube Preparation : 20% TEA / Water

**Analyst Name** Toni Attrill

**Limit of Detection** 0.017µgNO<sub>2</sub>

Analysed on UV 04 Camspec M550

**Report Checked By** Adam Robinson

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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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## LABORATORY ANALYSIS REPORT

Date of Analysis

04/07/2017

Date of Report

04/07/2017

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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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Report Number L04413R

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## LABORATORY ANALYSIS REPORT

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

**REPORT NUMBER** L05213R  
**BOOKING IN REFERENCE** L05213  
**DESPATCH NOTE** 35845  
**CUSTOMER** Phlorum Limited Attn: Lauren Grows  
Unit 12, Hunns Mere Way  
Woodingdean  
Brighton  
BN2 6AH  
**DATE SAMPLES RECEIVED** 24/07/2017  
**JOB NUMBER** 6254

Location	Sample Number	Exposure Data		Time (hr.)	$\mu\text{g}/\text{m}^3$ *	ppb *	TOTAL
		Date On	Date Off				$\mu\text{g NO}_2$
1	919822	20/06/2017	20/07/2017	719.83	27.58	14.40	1.44
1	919823	20/06/2017	20/07/2017	719.83	29.59	15.44	1.55
1	919824	20/06/2017	20/07/2017	719.75	27.09	14.14	1.42
2	919819	20/06/2017	20/07/2017	719.83	26.01	13.57	1.36
2	919820	20/06/2017	20/07/2017	719.83	25.78	13.46	1.35
2	919821	20/06/2017	20/07/2017	719.83	24.73	12.91	1.29
3	919816	20/06/2017	20/07/2017	719.83	23.07	12.04	1.21
3	919817	20/06/2017	20/07/2017	719.83	21.63	11.29	1.13
3	919818	20/06/2017	20/07/2017	719.83	20.97	10.94	1.10
4	919825	20/06/2017	20/07/2017	719.83	40.84	21.32	2.14
4	919826	20/06/2017	20/07/2017	719.83	38.52	20.10	2.02
4	919827	20/06/2017	20/07/2017	719.83	40.92	21.36	2.14
5	919828	20/06/2017	20/07/2017	719.75	15.98	8.34	0.84
5	919829	20/06/2017	20/07/2017	719.75	17.46	9.11	0.91
5	919830	20/06/2017	20/07/2017	719.75	16.77	8.75	0.88
6	919831	20/06/2017	20/07/2017	719.67	33.79	17.63	1.77
6	919832	20/06/2017	20/07/2017	719.67	33.52	17.49	1.75
6	919833	20/06/2017	20/07/2017	719.67	32.23	16.82	1.69
Unlabelled	926984			719.83	1.00	0.52	0.05
Unlabelled	926985			719.83	0.76	0.40	0.04
Unlabelled	926986			719.83	0.84	0.44	0.04
Laboratory Blank				719.83	0.19	0.10	0.010

**Comment: Results are not blank subtracted**

**Unlabelled tubes not listed on exposure sheet were received.**

**Numbers 926894, 926895 & 926896 were allocated & maximum exposure time used.**

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. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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This signature confirms the authenticity of these results  
Signed.....  
L. Gates, Laboratory Manager

## LABORATORY ANALYSIS REPORT

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

<b>Overall M.U.</b>	±7.8%	<b>Limit of Detection</b>	0.017µgNO <sub>2</sub>
		Analysed	
		on UV 04	
		Camspec	
		M550	

Tube Preparation : 20% TEA / Water

**Analyst Name**

Toni Attrill

**Report Checked By**

Duncan

Wilson

**Date of Analysis** 03/08/2017

**Date of Report** 03/08/2017

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

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