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Warwick Chemicals

TO: Mr I. Oakes / Miss J. Bradley
FROM: Mrs K. Cuning
DATE: 11th April 2013
Total no. of sheets: 23

Please find attached the emission results for the first quarter 2013:

RCF49 (Reporting Quarterly Emissions for Acetic Acid from A2-A23)
RCF66 (Fly Ash composition 1st quarter 2013),
RCF52 (Six Monthly Reporting of Emissions from A14)
x 3 (CEM's Emissions of Particulate from A14)
x 3 (CEM's Emissions of TOC from A14)
x 3 (CEM's Emissions of Carbon Monoxide from A14)
x 3 (CEM's Emissions of Oxides of Nitrogen from A14)
x 6 (Summary of Data for January, February and March 2013)
in accordance with the requirements of our PPC Permit BU2357

Thank you

Regards



Karen Cuning
HSE Systems Specialist

eaeturn/1qu13letter (4/2/13)

MONITORING RETURNS N. WALES

	INITIALS	DATE
CHECKED VS AUTHORISATION		16.4.13
TRACKING	JB	16.4.13
ON FOR PUBLIC REGISTER		16.4.13
LOADED TO PUBLIC REGISTER	JB	EDM

TITLE :	Reporting of Emissions to Air		ISSUE NO.	3.0
REF :	RCF66	AREA:	Responsible Care	
RELATED DOCUMENT:	AS4362 - S2/A/2	DATE OF ISSUE:		
FILENAME:	661qu13	PAGE:		
Last printed 04/02/2013 13:30:00				



Permit Reference Number	BU2357/AP3634SJ	Operator	Warwick Chemicals
Installation	Mostyn, Flintshire	Form Number	Ash1 / Ash Disposal Change

Reporting of Fly Ash Composition for the period	from	1 st January	to	31st March 2013
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Ash Composition (Metals, Dioxins, etc.)																
	Cd %	Ti %	Hg %	Pb %	Cr %	Cu %	Mn %	Ni %	As %	Co %	V %	Zn %	DIOXIN I-TEQ ng/kg	DIOXIN		
														WHO-TEQ ng/kg		
														Humans/ mammals	Birds	Fish
Fly Ash	1.0	1.0	1.0	3.0	170	20	17	120	1.0	2.0	1.0	110	11.470	11.9937	15.3189	12.1639

Signed	<i>He Cunningham</i>	Date	4th February 2013
(Authorised to sign as representative of Warwick Chemicals)			

BU 2357 / AP 3634

December 2005



Title: Reporting of Emissions to Air
Ref: RCF52
Related Document: AS4362 - S2/A2
Filename: U:\WPFILES\EA\Returns\521qu13.doc

Area: Site
Last printed 05/03/2013 15:07:00

Issue No.: 2.0
Date of Issue: 20.01.06
Page: 1 of 2
Created on 05/03/2013 10:00:00

Permit Reference Number : BU2357/AP3634SJ	Operator : Warwick International Limited
Installation : Mostyn, Flintshire	Form Number : A3 / (Incinerator Periodic Monitoring)

Six Monthly Reporting of Emissions to Air for the period:	From	1 st January	To	30th June 2013
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Emission Point	Substance / Parameter	Emission Limit Value	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Accreditation / Certification ⁽⁴⁾	Uncertainty ⁽⁵⁾
A14	Hydrogen chloride	10 mg/m ³ over minimum 1 hour period	0.71mg/m ³	BS EN 1911	15/1/13 10:01-11:01	UKAS/MCERTS	0.11
A14	Hydrogen fluoride	1 mg/m ³ over minimum 1 hour period	0.33mg/m ³	BS ISO 15713	22/1/13 12:25-13:25	UKAS/MCERTS	0.05
A14	Sulphur dioxide	50 mg/m ³ (average of 1/2-hour averages) over minimum 4 hour period	0.06mg/m ³	BS EN 14791	15/1/13 11:50-13:57	UKAS/MCERTS	0.01
A14	Cadmium & thallium and their compounds (total)	0.05 mg/m ³ over minimum 30 minute, maximum 8 hour period	<0.05mg/m ³	BS EN 14385	22/1/13 09:46-11:52	UKAS/MCERTS	-
A14	Mercury and its compounds	0.05 mg/m ³ over minimum 30 minute, maximum 8 hour period	0.001mg/m ³	BS EN 13211	22/1/13 09:46-11:52	UKAS/MCERTS	0.000
A14	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	0.5 mg/m ³ over minimum 30 minute, maximum 8 hour period	0.008mg/m ³	BS EN 14385	22/1/13 09:46-11:52	UKAS/MCERTS	0.003
A14	Dioxins / furans (I-TEQ) ⁽⁶⁾	0.1 ng/m ³ over minimum 6 hour, maximum 8 hour period	0.002ng/m ³	BS EN 1948	16/1/13 10:10-16:24	UKAS/MCERTS	0.001
A14	Dioxin-like PCBs (WHO-TEQ Humans / Mammals) ⁽⁶⁾	No limit applies	0.005ng/m ³	BS EN 1948	16/1/13 10:10-16:24	UKAS/MCERTS	0.001
A14	Dioxin-like PCBs (WHO-TEQ Fish) ⁽⁶⁾	No limit applies	0.0002ng/m ³	BS EN 1948	16/1/13 10:10-16:24	UKAS/MCERTS	0.0001
A14	Dioxin-like PCBs (WHO-TEQ Birds) ⁽⁶⁾	No limit applies	0.009ng/m ³	BS EN 1948	16/1/13 10:10-16:24	UKAS/MCERTS	0.003
A14	Dioxins / furans (WHO-TEQ Humans / Mammals) ⁽⁶⁾	No limit applies	0.002ng/m ³	BS EN 1948	16/1/13 10:10-16:24	UKAS/MCERTS	0.001
A14	Dioxins / furans (WHO-TEQ Fish) ⁽⁶⁾	No limit applies	0.002ng/m ³	BS EN 1948	16/1/13 10:10-16:24	UKAS/MCERTS	0.001
A14	Dioxins / furans (WHO-TEQ Birds) ⁽⁶⁾	No limit applies	0.003ng/m ³	BS EN 1948	16/1/13 10:10-16:24	UKAS/MCERTS	0.001



Title: Reporting of Emissions to Air
 Ref: RCF52
 Related Document: AS4362 - S2/A/2
 Filename: U:\WPFILES\SEAR\emissions\21\qu13.doc

Area: Site
 Last printed 05/03/2013 15:07:00

Issue No.: 2.0
 Date of Issue: 20.01.06
 Page: 2 of 2
 Created on 05/03/2013 10:00:00

Emission Point	Substance/Parameter	Emission Limit Value	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Accreditation/Certification ⁽⁴⁾	Uncertainty ⁽⁵⁾
A14	Poly-cyclic aromatic hydrocarbons (PAHs) Total	No limit applies	1.122ug/m ³	ISO 113381	17/1/13 10:38-16:51	UKAS/MCERTS	0.295
A14	Anthracene	No limit applies	0.023	"	"	"	0.006
A14	Benzo[a]anthracene	No limit applies	0.023	"	"	"	0.006
A14	Benzo[b]fluoranthene	No limit applies	0.023	"	"	"	0.006
A14	Benzo[k]fluoranthene	No limit applies	0.023	"	"	"	0.006
A14	Benzo[b]naph(2,1-d)thiophene	No limit applies	0.023	"	"	"	0.006
A14	Benzo[c]benzanthrene	No limit applies	0.023	"	"	"	0.006
A14	Benzo[ghi]perylene	No limit applies	0.023	"	"	"	0.006
A14	Benzo[a]pyrene	No limit applies	0.023	"	"	"	0.006
A14	Cholanthrene	No limit applies	0.023	"	"	"	0.006
A14	Chrysene	No limit applies	0.023	"	"	"	0.006
A14	Cyclopenta[c,d]pyrene	No limit applies	0.023	"	"	"	0.006
A14	Dibenzo[a,h]anthracene	No limit applies	0.023	"	"	"	0.006
A14	Dibenzo[a,i]pyrene	No limit applies	0.023	"	"	"	0.006
A14	Fluoranthene	No limit applies	0.046	"	"	"	0.012
A14	Indol[1,2,3-cd]pyrene	No limit applies	0.023	"	"	"	0.006
A14	Naphthalene	No limit applies	0.756	"	"	"	0.198

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

[6] The result to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum

Signed	(authorised to sign as representative of Warwick International Limited)		Date
	<i>M. Curran</i>		26th February 2013.



TITLE : Reporting of Emissions to Air		ISSUE NO. 4.0	
REF : RCF49	AREA:	DATE OF ISSUE: 16.06.11	
RELATED DOCUMENT: AS4362-S2/A/2	Responsible Care	PAGE: 1 of 2	
FILENAME: 491qu13	Last printed 04/02/2013 13:47:00		

Permit Reference Number BU2357/AP3338MA	Operator: Warwick Chemicals
Installation : Mostyn, Flintshire	Form Number : AI (TAED & Sodium Acetate Processes)

Annual Reporting of Emissions to Air for the period:		From 1 st January	To: 31st March 2013
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Emission Point	Substance/Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
A2	Acetic acid	50mg/m ³ [6]	24.2	SOP5100 CD/FID/GC	23/1/13 09:47-16:01	Validation Report No. MV1ES586	+/- 10%
A3	Acetic acid	50mg/m ³ [6]	13.2	"	23/1/13 09:58-15:56	"	"
A5	Acetic acid	50mg/m ³ [6]	32.1	"	22/1/13 08:33-15:39	"	"
A6	Acetic acid	50mg/m ³ [6]	19.2	"	22/1/13 09:10-15:48	"	"
A7	Acetic acid	50mg/m ³ [6]	27.8	"	22/1/13 09:02-15:44	"	"
A20	Acetic acid	50mg/m ³ [6]	0.28	"	23/1/13 09:38-16:07	"	"
A22	Acetic acid	50mg/m ³ [6]	0.27	"	23/1/13 09:38-16:07	"	"
A23	Acetic acid	50mg/m ³ [6]	0.30	"	23/1/13 09:38-16:07	"	"
A24	Acetic acid	50mg/m ³ [6]	#	#	#	#	#

Emission point no longer monitored – plant decommissioned

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum — maximum measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods, used for both sampling and analysis.
- [5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
- [6] The emission limit value for acetic acid is expressed as total acetic acid and acetic anhydride (as acetic acid) as a maximum individual value, and corrected to 273K, 101.3kPa

Signed: <i>M. Curran</i>	Date: 24 th January 2013
(Authorised to sign as representative of Warwick Chemicals)	

BU2357 / AP3338MA

February 2007



Title: Reporting Incinerator CEM

Ref:

Related Document: BU2357/AP3634

Area: Manufacturing

Issue No.: 1

Last printed: 04/02/2013

Date of Issue: 21/12/2006

Page: 1 of 2

Incinerator Summary Report - January 2013

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Running time	h	3	13	22.5	18	22.5	24	24	1	0	11	6.5	10.5	17.5	24	24	17.5	21.5
Gas	h	20.5	6.5	13	1.5	0	0	0	17	24	13.5	18.5	15	8	0	0	6.5	2.5
Residue & gas	h	0	0	0	1.5	0	0	0	0	0	0.5	2	0	1.5	0	0	0	0
Idle	h	0.5	4.5	1	0	0	0	0	6	0	0	1	0.5	0	0	0	0	0
Total flow	kg	1211.8	4849.7	3783.3	5540.3	9976.3	10799.2	9984.3	432.8	52.8	5068.5	2346.5	4178	7776.8	10800.8	10800.7	7874.3	9889.8
Gas	m3	3049	971	2288.8	1425.7	232	0	0	2893	4178	2235.3	3042.8	2399.5	1287.8	0	0	1054.3	404.2
Air	m3	122147	103885	139163	130278	144870	148925	138289	116080	127587	132828	135707	132900	143951	138725	136556	135517	133338
NOx (normalised)	mg/m3	70.3	77.3	28.7	55.3	38.7	63	81	228.3	154	70	48.7	60	50.7	67.7	88	64.7	78.7
Ave	mg/m3	96.2	94.7	95.7	78.3	117.7	90.5	157.8	228.8	154	154	75.4	86.5	80.8	85.7	83.2	85.4	110.4
Max	mg/m3	142.7	194.7	352	143.3	705.3	105.3	228	229.3	387	387	127	186	180	89.7	85	144.3	319.7
Exceeds daily ELV ?	[400 mg/m3]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CO (normalised)	mg/m3	-5.3	-5.9	-4.5	-8.5	-5.8	-5.5	-5.5	-5.5	-5	-5	-5.5	-5.5	-5.8	-5.5	-5.5	-5.5	-5.5
Ave	mg/m3	-4.7	-5.5	-5.4	-5.6	-5.4	-5.5	-5.5	-5.5	-4.4	-4.4	-3.9	-4.4	-4.8	-5.5	-5.5	-5.4	-5.3
Max	mg/m3	0	0	1.8	0	0	0	0	0	0	0	0.4	0.1	0	0	0	0	0
30m ELV exceedances	[100 mg/m3]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exceeds daily ELV ?	[50 mg/m3]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Particulates (normalised)	mg/m3	0.5	0.4	0.2	0.5	0.3	0.6	0.6	0.7	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4
Ave	mg/m3	0.5	0.5	0.6	0.6	0.5	0.8	0.8	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5
Max	mg/m3	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5
30m ELV exceedances	[30 mg/m3]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exceeds daily ELV ?	[10 mg/m3]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
VOC (normalised)	mg/m3	1.2	0	0	0	0	0	0	8	1	1	1	0.9	1	0.9	1	0.9	1
Ave	mg/m3	1.7	0.2	0	0	0	0	0	8	1.2	1.2	1.8	1.7	1.5	1	1	1.1	1.2
Max	mg/m3	2.7	1.3	0.5	0	0	0	8.9	8	1.5	1.5	3.8	3.2	2.8	1	1	1.4	1.8
30m ELV exceedances	[20 mg/m3]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exceeds daily ELV ?	[10 mg/m3]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

NOTES

Invalid data points are not reported because the incinerator is not operated at any time whilst CEM equipment is being maintained or calibrated



Title: Reporting Incinerator CEM

Issue No.: 1

Ref:

Last printed: 04/02/2013

Date of Issue: 21/12/2008

Related Document: BU2357/AP3634

Created on: 21-12-2006

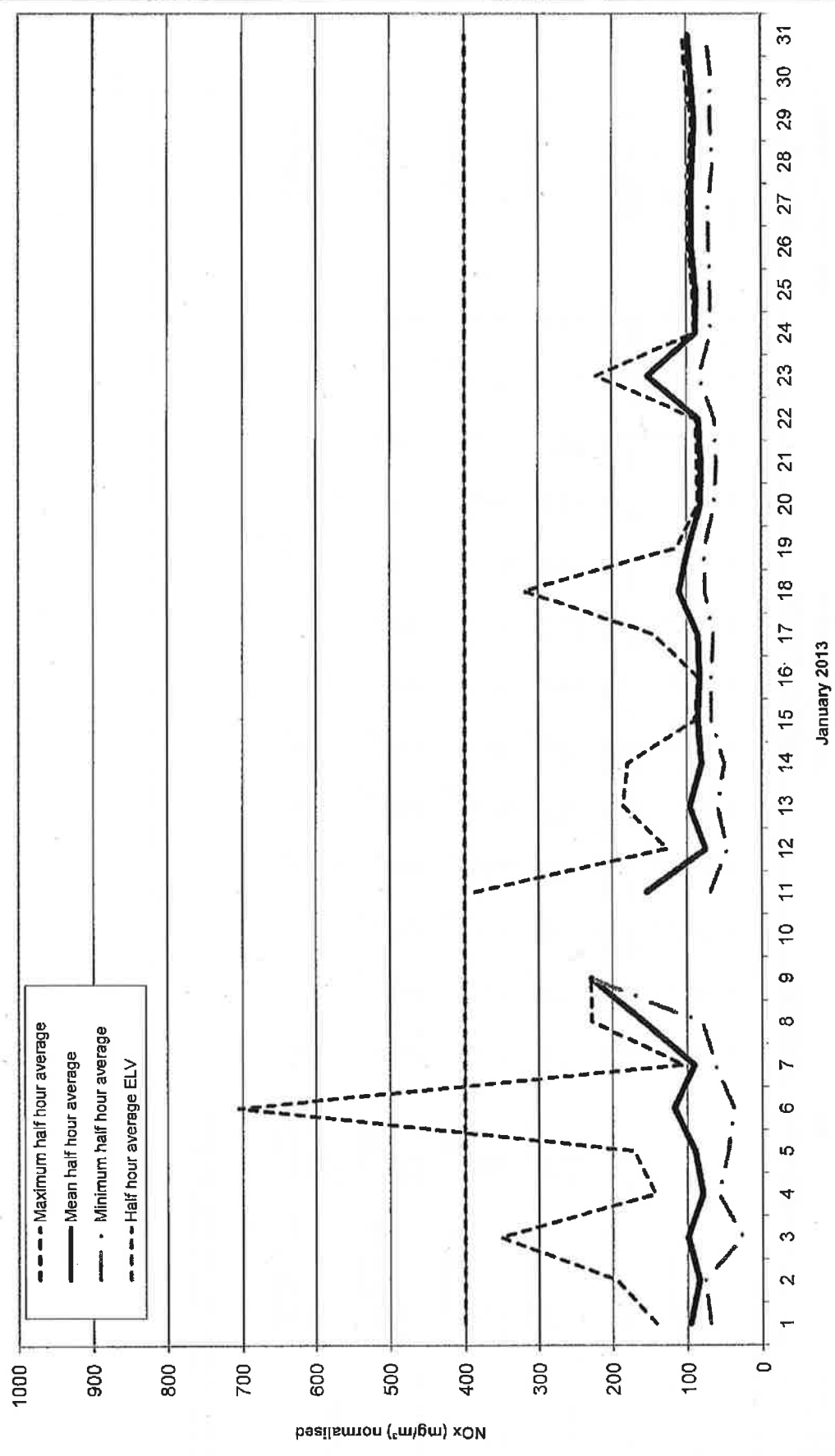
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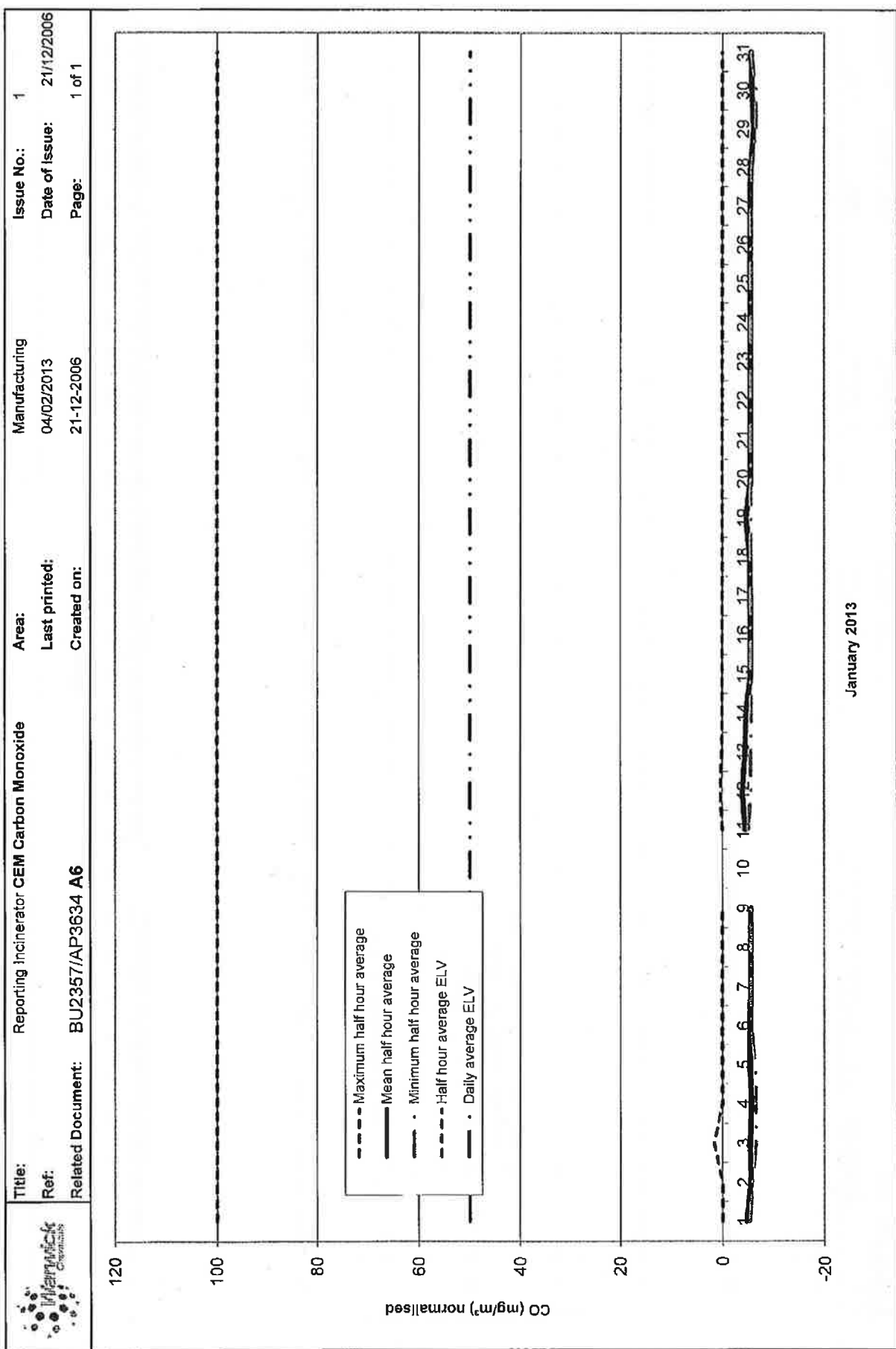
Incinerator Summary Report - January 2013

Day	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTALS
Running time	h	24	24	24	24	24	24	24	24	24	24	24	24	580.5
Gas	h	0	0	0	0	0	0	0	0	0	0	0	0	157
Residue & gas	h	0	0	0	0	0	0	0	0	0	0	0	0	7.5
Idle	h	0	0	0	0	0	0	0	0	0	0	0	0	14
Total flow	kg	10800	10800.5	10800	10801.2	9196	9000.8	9001.2	9000.2	9001.8	9000.8	9001.2	9002.7	238.3 tonnes
Gas	m ³	0	0	0	0	0	0	0	0	0	0	0	0	25719 m ³
Air	m ³	141628	139091	138028	139701	122601	120238	120222	128868	126754	131322	128138	125868	4075414 m ³
Min	mg/m ³	77	83.3	60	64	84	68.3	69	71.3	65.3	68.3	68	74.3	
Ave	mg/m ³	87.8	91.7	81.1	84.7	152.5	88.3	88	93.9	92.3	89.8	94.1	98.7	
Max	mg/m ³	114	85	98.3	87.7	221.7	90	92	97.3	96.3	93.3	101.7	104.7	
Exceeds daily ELV ?	N	N	N	N	N	N	N	N	N	N	N	N	N	0 exceedances
Min	mg/m ³	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.8	-5.7	-6.5	-6.5	-6.6	
Ave	mg/m ³	-4.6	-5.5	-5.5	-5.5	-5.5	-5.5	-5.4	-5.4	-5.5	-6	-5.7	-5.5	
Max	mg/m ³	0	0	0	0	0	0	0	0	0	0	0	0	
30m ELV exceedances	[100 mg/m ³]	0	0	0	0	0	0	0	0	0	0	0	0	0 exceedances
Exceeds daily ELV ?	N	N	N	N	N	N	N	N	N	N	N	N	N	0 exceedances
Min	mg/m ³	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	
Ave	mg/m ³	0.6	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	
Max	mg/m ³	0.6	0.4	0.4	0.5	0.8	0.6	0.8	0.4	0.4	0.4	0.4	0.5	
30m ELV exceedances	[30 mg/m ³]	0	0	0	0	0	0	0	0	0	0	0	0	0 exceedances
Exceeds daily ELV ?	N	N	N	N	N	N	N	N	N	N	N	N	N	0 exceedances
Min	mg/m ³	1	0	0	0	0	1	0.9	0.9	0	0	0	0	
Ave	mg/m ³	1.3	1	0.1	0	0.9	1.4	1	1	0	0	0	0	
Max	mg/m ³	1.5	1.3	1	0	2.9	2	1	1	0	0	0	0	
30m ELV exceedances	[20 mg/m ³]	0	0	0	0	0	0	0	0	0	0	0	0	0 exceedances
Exceeds daily ELV ?	N	N	N	N	N	N	N	N	N	N	N	N	N	0 exceedances

NOTES

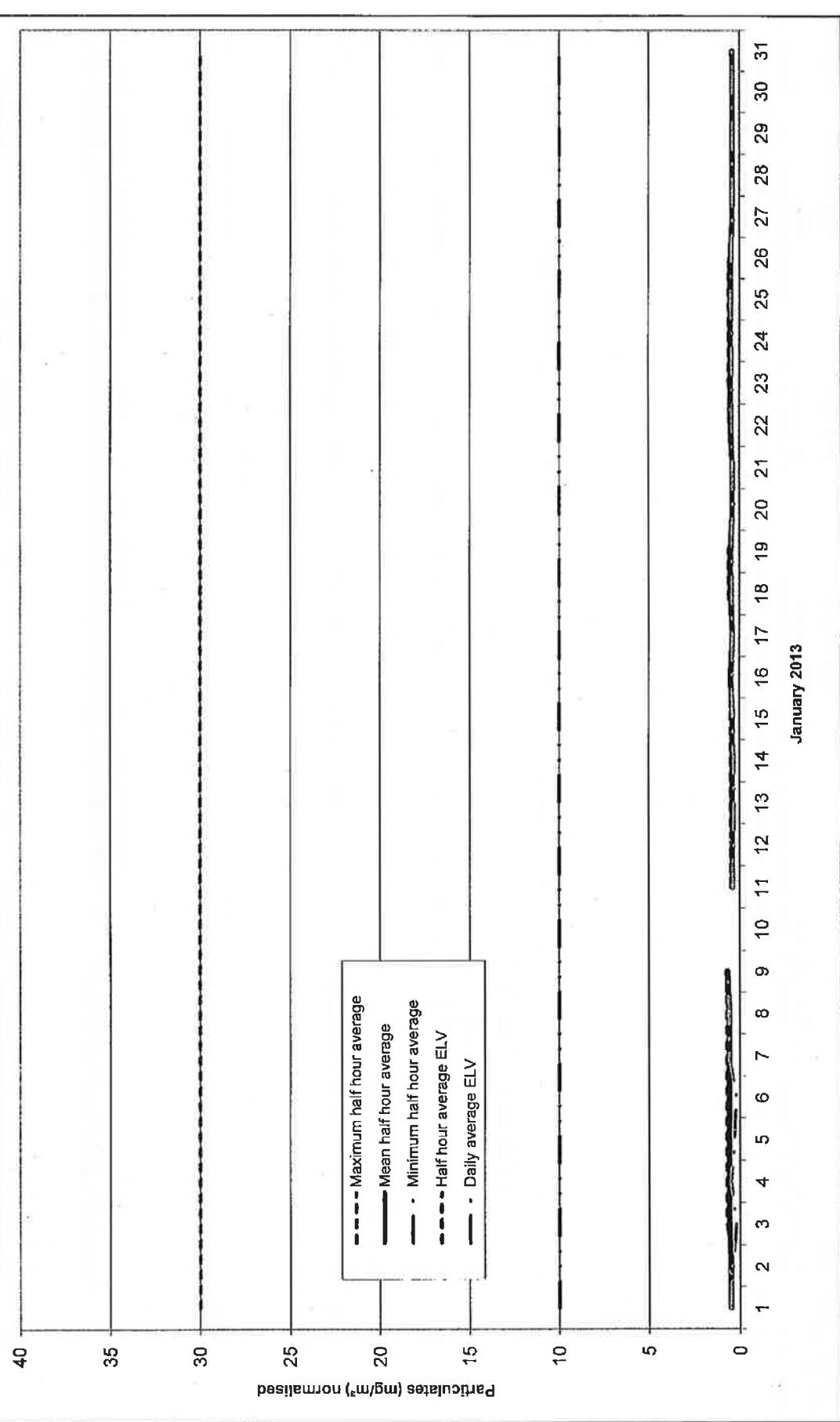
Invalid data points are not reported because the Incinerator is not operated at any time whilst CEM equipment is being maintained or calibrated





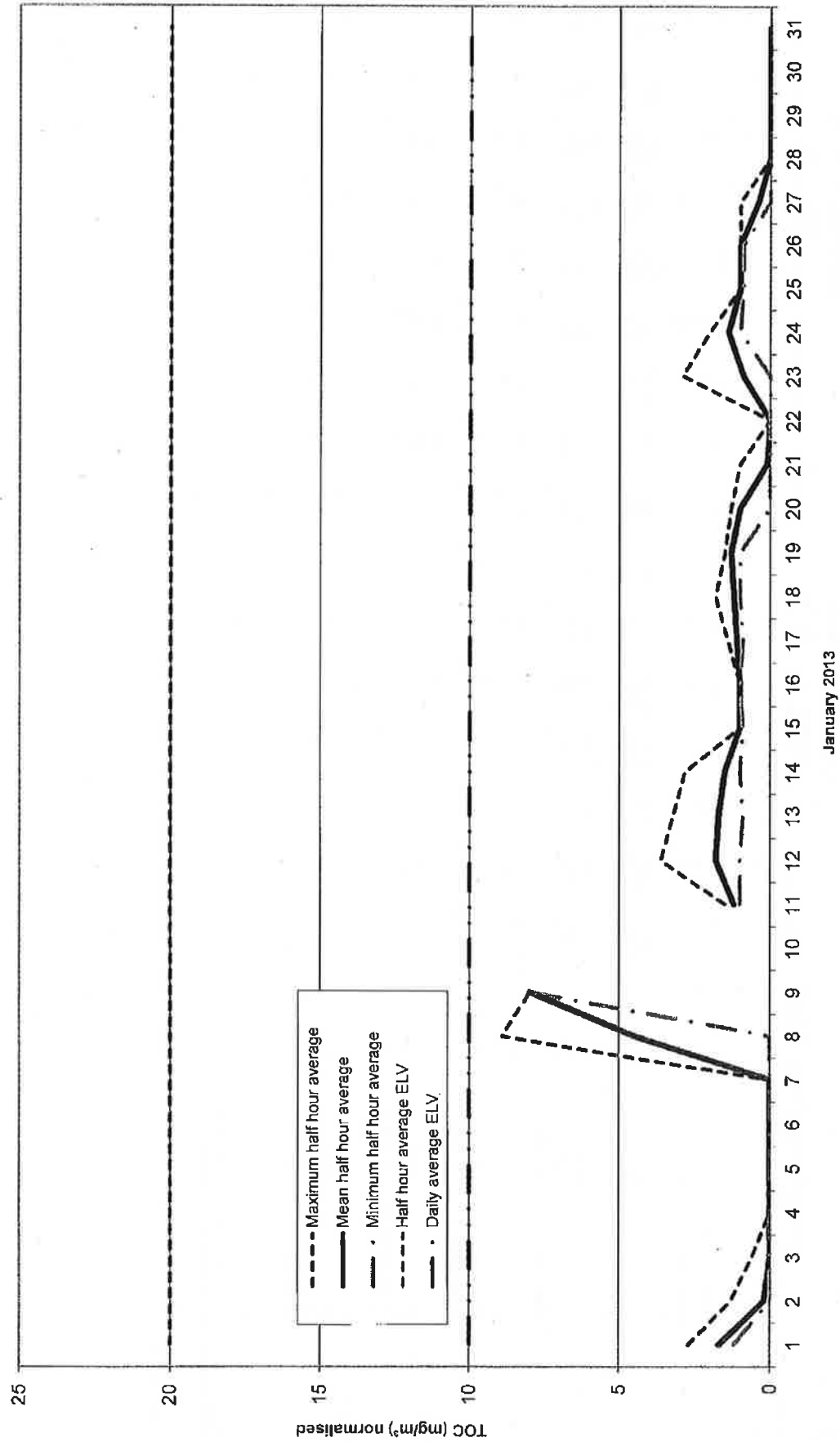


Title: Reporting Incinerator CEM Particulates
Ref:
Related Document: BU2357/AP3634 A4
Area:
Last printed:
Created on:
Issue No.: 1
Date of issue: 21/12/2006
Page: 1 of 1





Title:	Reporting Incinerator CEM TOC	Area:	Manufacturing	Issue No.:	1
Ref:		Last printed:	04/02/2013	Date of issue:	21/12/2006
Related Document:	BU2357/AP3634 A5	Created on:	21-12-2006	Page:	1 of 1





Title: Reporting Incinerator CEM

Area: Manufacturing

Issue No.: 1

Ref:

Last printed: 04/03/2013

Date of Issue: 21/12/2006

Related Document: BU2357/AP3634

Created on: 21-12-2006

Page: 1 of 2

Incinerator Summary Report - February 2013

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Running time	h	12.5	0	24	24	7	8.5	24	24	15.5	24	21	0.5	12	21	22	24	23
Gas	h	12	24	0	0	5	18	0	0	7.6	0	2.5	21	12.5	2.5	0	0	1.5
Residue & gas	h	0.5	0	0	0	0.5	2.5	0	0	1	0	0	0	0.5	0	0.5	0	0.5
Idle	h	0	0	0	0	12.5	0	0	0	2	0	0.5	2.5	0	0.5	0	0	0
Total flow	kg	4554.7	0	3874.7	7973.5	2232.8	2455.8	7201.2	7200.3	5028.8	7204	8315.2	214.7	4703.2	8403	8827.3	8985.8	7980.3
Gas	m ³	2051.7	4178	2470.7	0	0	2792.2	0	0	1182	0	563.8	3585.8	2122.3	406.5	388.5	0	182.7
Air	m ³	131750	135450	136635	124601	110445	85027	96728	96117	127817	88989	103597	138522	139723	135876	130283	122084	118830
NOx (normalised)	mg/m ³	59.3	85.3	85.3	89	89.7	54.3	138.7	138.3	115.3	173	100.3	540.3	88	106.3	86	88.3	139
Min	mg/m ³	92.1	96.5	96.5	94.7	108.3	174.5	237.8	210.7	181.1	255.5	295.7	540.3	118.2	174.3	251.4	167.3	158.6
Ave	mg/m ³	100.7	269	269	105.7	128	343.3	404.7	234.3	402.3	348.7	827	540.3	407.3	483.7	432.7	492.7	306.7
Max	mg/m ³																	
Exceeds daily ELV ?	[400 mg/m ³]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
OO (normalised)	mg/m ³	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.9	-5.4	-5.5	-5.5	-2.1	-5.6	-5.5	-5.5	-5.5	-5.5
Min	mg/m ³	-5.2	-5.4	-5.4	-5.4	-5.4	-4	-5.3	-5.4	-5.1	-5.4	-6.2	-2.1	-5.2	-5.5	-5.5	-5.5	-5.4
Ave	mg/m ³	0.2	0	0	0	0	0.2	0	0	0	0	0	0	2.2	0	0	0	0
Max	mg/m ³	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30m ELV exceedances	[100 mg/m ³]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Exceeds daily ELV ?	[50 mg/m ³]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Particulates (normalised)	mg/m ³	0.3	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4
Min	mg/m ³	0.4	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.5
Ave	mg/m ³	0.5	0.5	0.5	0.5	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.5	0.4	0.5	0.4	0.5
Max	mg/m ³	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30m ELV exceedances	[30 mg/m ³]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Exceeds daily ELV ?	[10 mg/m ³]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
VOC (normalised)	mg/m ³	0	0.5	0.5	0	0	0.9	1.2	1	1	1.1	1.1	3	1	1	1	0.9	1
Min	mg/m ³	0.1	0.5	0.5	0.2	0	1.5	1.4	1.3	1.2	1.4	1.5	3	1.1	1.3	1.4	1.1	1.2
Ave	mg/m ³	1.8	0.8	0.8	0.5	0	2.9	1.5	1.5	1.8	1.5	2.4	3	3.3	2.1	2	1.8	2.7
Max	mg/m ³	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30m ELV exceedances	[20 mg/m ³]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Exceeds daily ELV ?	[10 mg/m ³]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

NOTES
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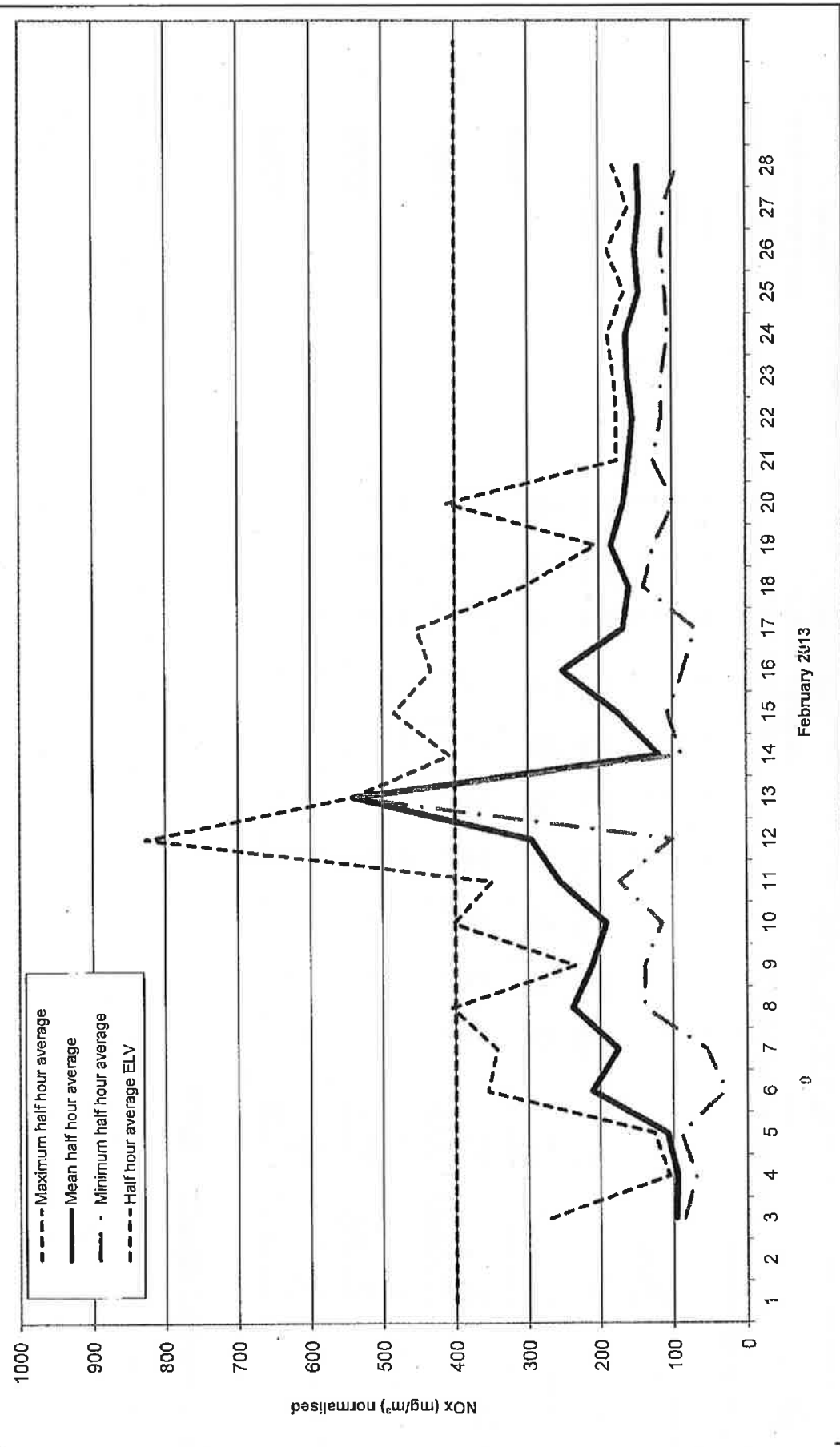
Incinerator Summary Report - February 2013

Day	19	20	21	22	23	24	25	26	27	28	TOTALS
Running time	24	22.5	24	24	24	24	24	24	24	24	535.5
Gas	0	1.5	0	0	0	0	0	0	0	0	125
Residue & gas	0	0	0	0	0	0	0	0	0	0	6.5
Idle	0	0	0	0	0	0	0	0	0	0	18
Total flow	8400.3	7955.8	6398.8	8402	8400.8	8401.3	8403	8400.3	8388.7	8401.2	185 tonnes
Gas	0	198.7	0	0	0	0	0	0	0	0	20887 m3
Air	11828	115787	113885	113592	118378	116860	119168	117078	115323	115573	3316319 m3
NOx (normalised)	128	97	125.7	115	114	105.3	105.7	114.7	111.3	52.7	
Min	183.6	166.3	158.2	153.5	160.3	182.3	144.7	150.3	144.1	148.5	
Ave	205.3	411.7	175.3	175.7	179.3	185.3	185.3	188.7	180.3	180.3	
Max	Exceeds daily ELV ?										1 exceedances
CO (normalised)	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	
Min	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	
Ave	0	0	0	0	0	0	0	0	0	0	
Max	30m ELV exceedances										0 exceedances
30m ELV exceedances	0	0	0	0	0	0	0	0	0	0	
Exceeds daily ELV ?	N										0 exceedances
Particulates (normalised)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Min	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Ave	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Max	30m ELV exceedances										0 exceedances
30m ELV exceedances	0	0	0	0	0	0	0	0	0	0	
Exceeds daily ELV ?	N										0 exceedances
VOC (normalised)	1.2	1	0	0	0	0	0	0	0	0	
Min	1.4	1.1	1	0.1	0	0	0	0	0	0	
Ave	1.5	2.3	1.2	1.1	0	0	0	0	0	0	
Max	30m ELV exceedances										0 exceedances
30m ELV exceedances	0	0	0	0	0	0	0	0	0	0	
Exceeds daily ELV ?	N										0 exceedances

NOTES
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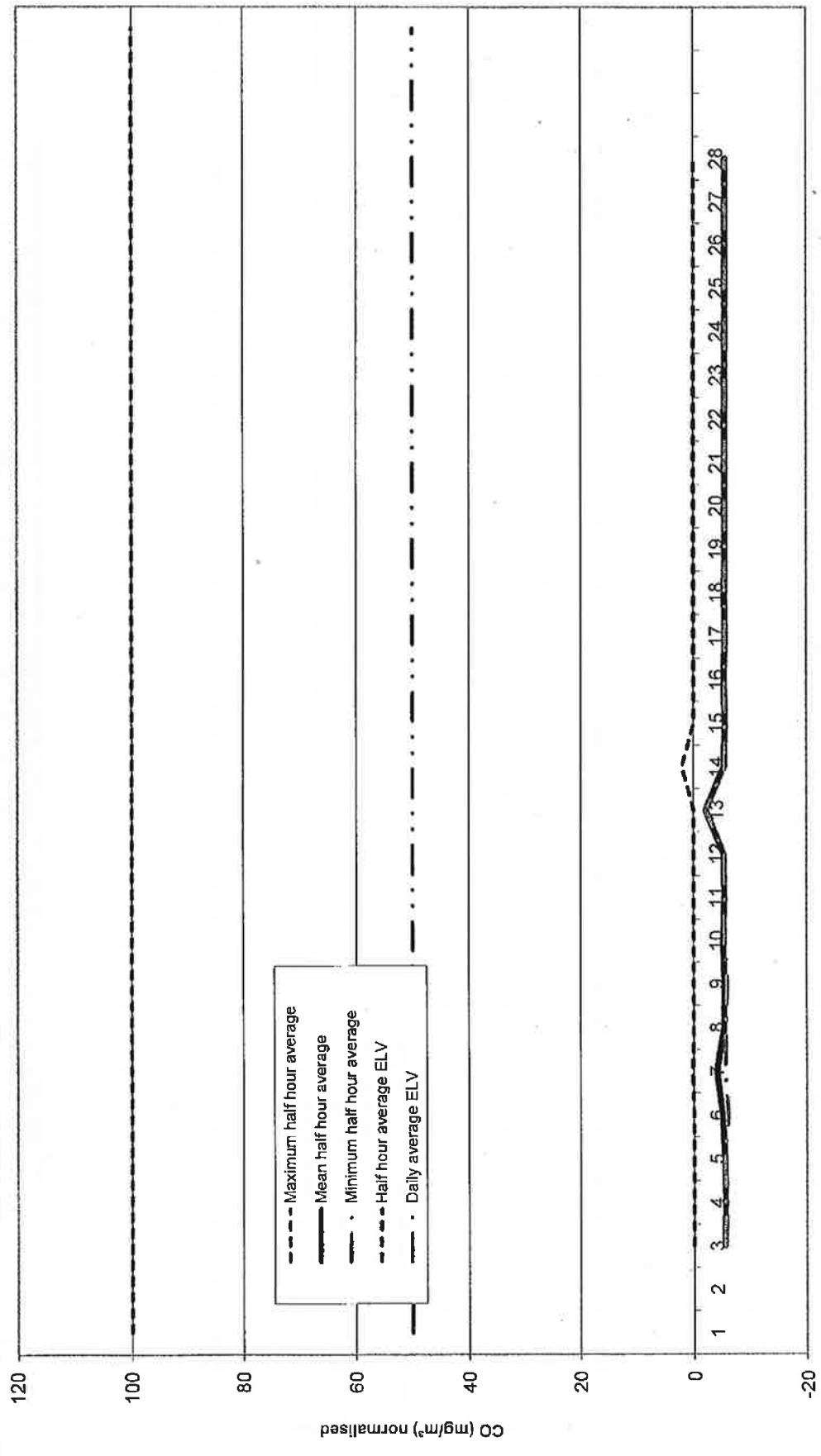


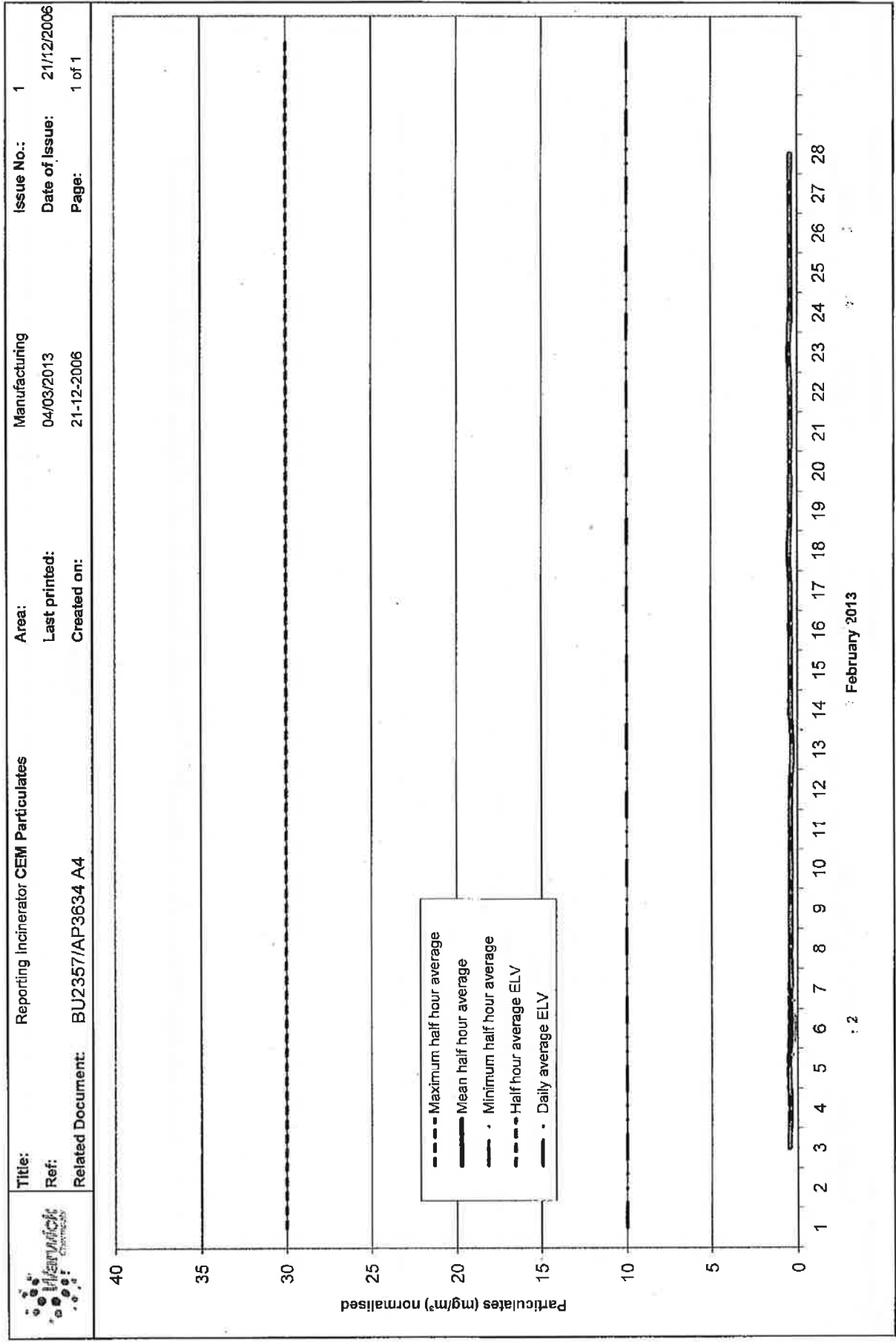
Title:	Reporting Incinerator CEM Oxides of Nitrogen	Area:	Manufacturing	Issue No.:	1
Ref:		Last printed:	04/03/2013	Date of Issue:	21/12/2006
Related Document:	BU2357/AP3634 A7	Created on:	21-12-2006	Page:	1 of 1

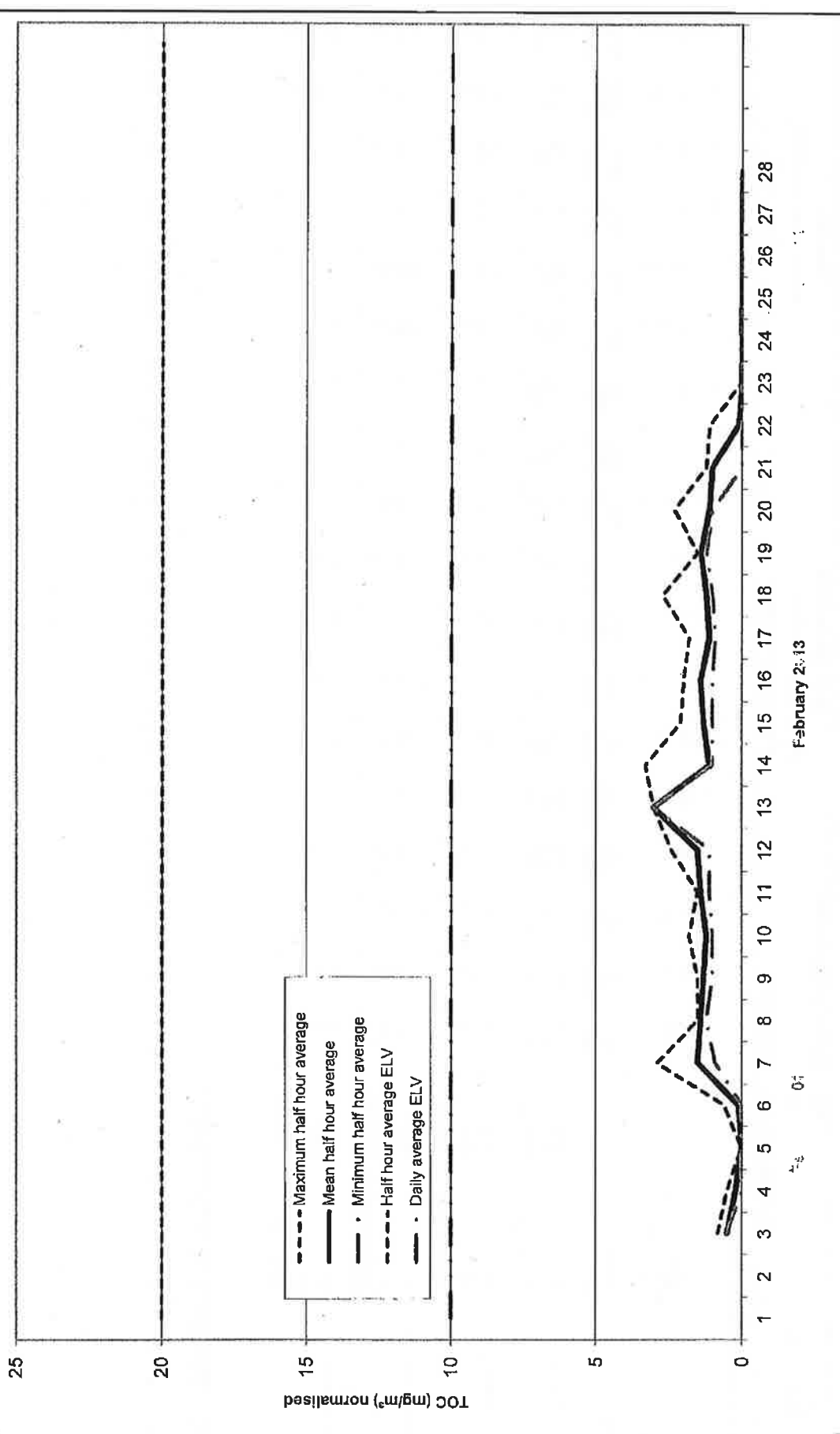




Title:	Reporting Incinerator CEM Carbon Monoxide	Area:	Manufacturing	Issue No.:	1
Ref:		Last printed:	04/03/2013	Date of Issue:	21/12/2006
Related Document:	BU2357/AP3634 A6	Created on:	21-12-2006	Page:	1 of 1





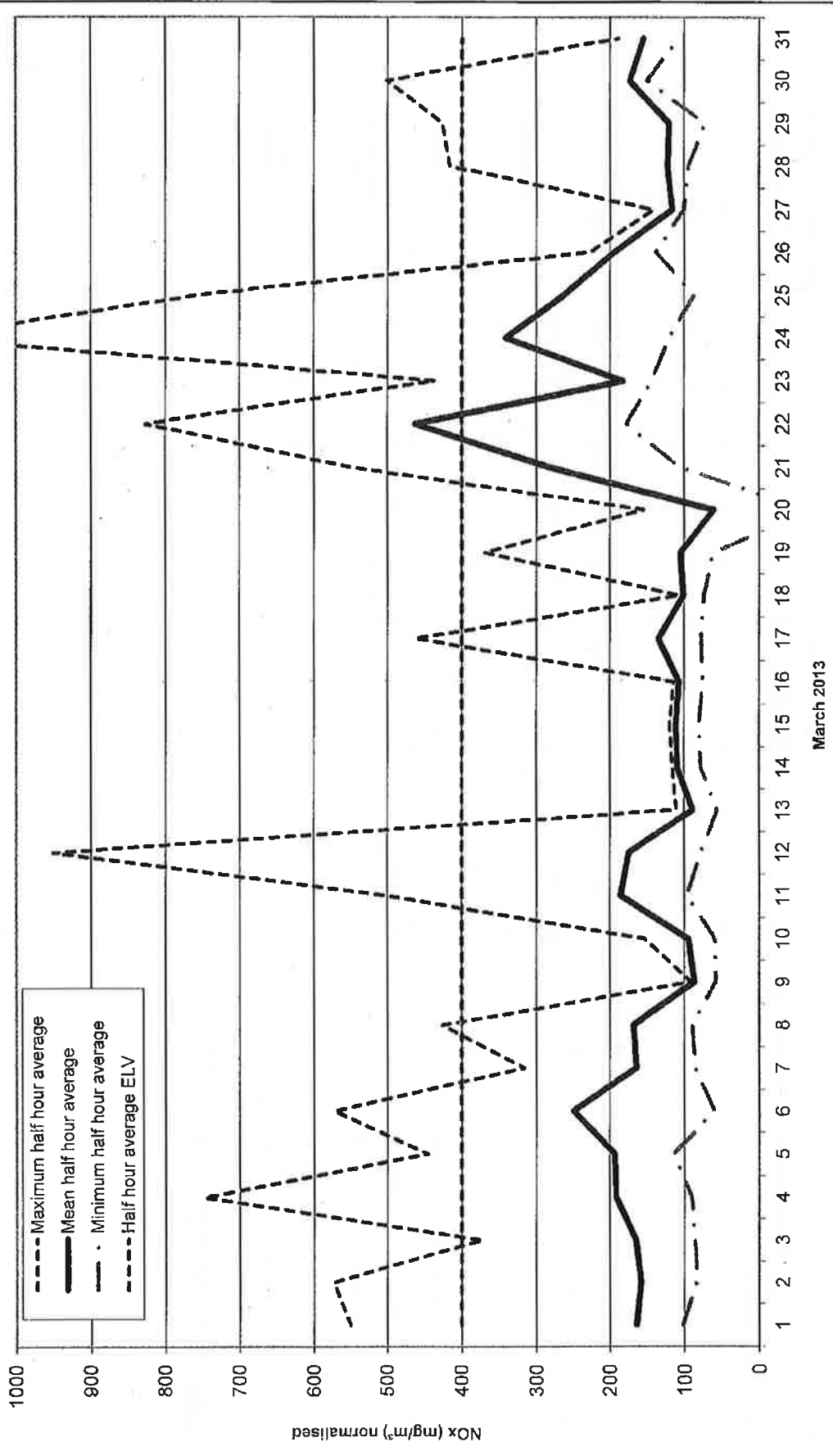


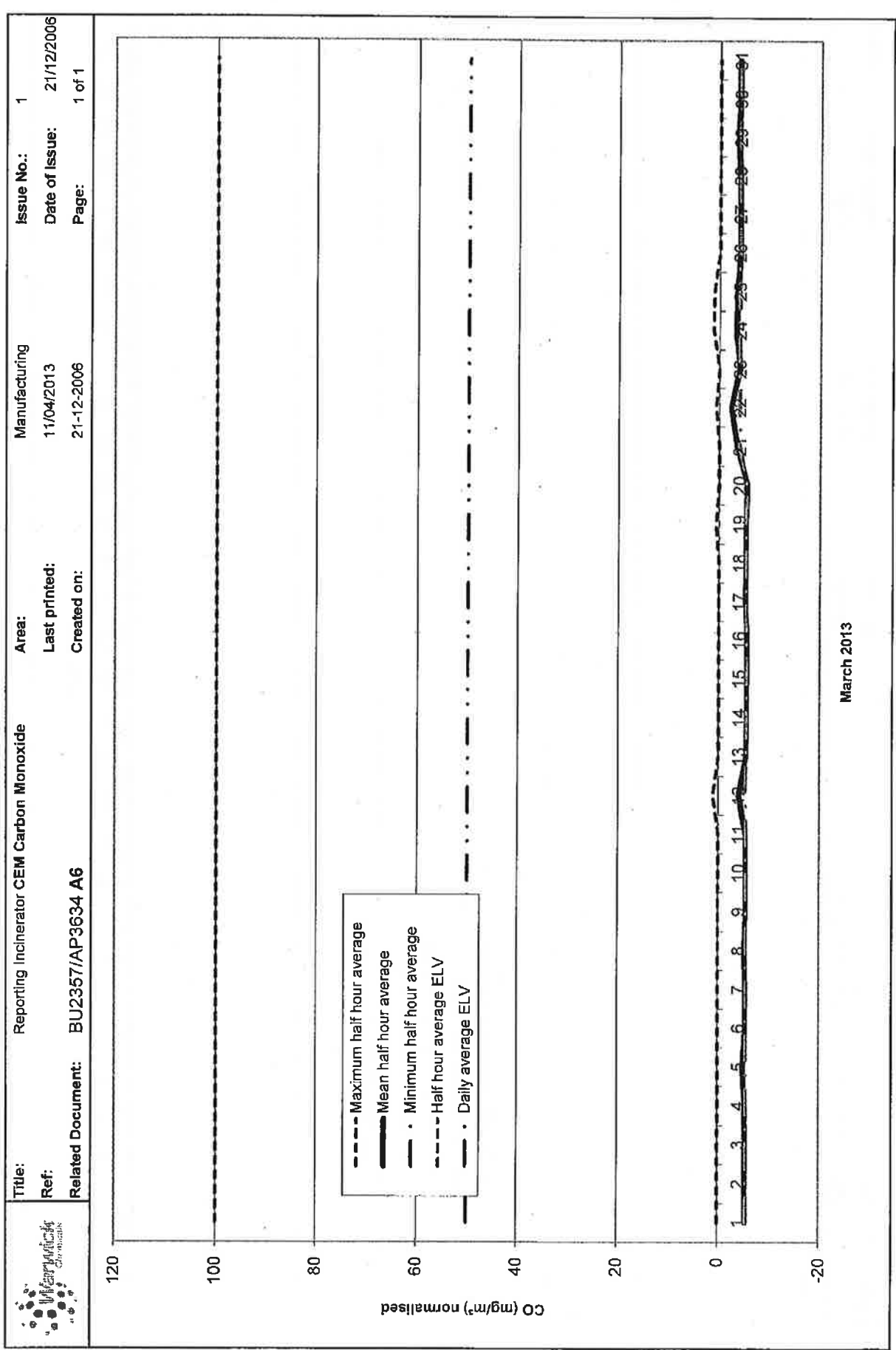
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Running time	22	22.5	21	21	13.5	24	24	19.5	24	24	10	12.5	24	24	24	24	18.5	24
Gas	2.5	2	3.5	3.5	7	0	0	7.5	0	0	14	13	0	0	0	0	6	0
Residue & gas	0.5	0.5	0.5	0.5	0.5	0	0	0	0	0	0	1.5	0	0	0	0	0.5	0
Idle	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
Total flow	7595.5	7822.9	7257.8	7194	4513.3	8401	8403.5	5702.3	8400.2	8403.2	3497.2	4553	9251.7	9001.5	9003.5	9000.7	8888	9001.5
Gas	386.5	280.2	548.5	581.2	1082.5	0	0	1293.8	0	0	2381.7	2040.7	0	0	0	0	653.8	0
Air	121045	120505	120820	122483	140136	120829	121346	127813	116194	114417	127158	130872	126771	123134	125050	123427	123571	117802
NOx (normalised)																		
Min	102	83.7	88	90.3	113.7	60	85.7	88.7	58	59	97	78	58	78.3	81	75.7	77.7	74
Ave	154.1	158.1	165	191.9	193.3	249.3	184.1	187.9	86.8	94.7	185.7	174.6	89.1	109.2	111.1	106.7	134.7	101
Max	550.3	573	372.3	746.7	445	572.3	316.3	428	90.7	153.3	501.7	860.3	111	116.7	119.7	114	462.7	108.3
Exceeds daily ELV ?	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CO (normalised)																		
Min	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.3	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5
Ave	-5.4	-5.4	-5.4	-5.3	-4.9	-5.4	-5.4	-5.2	-5.4	-5.4	-5.3	-4	-5.4	-5.5	-5.5	-5.5	-5.2	-5.3
Max	0	0	0	0	0	0	0	0	0	0	0	1.1	0	0	0	0	0	0
30m ELV exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exceeds daily ELV ?	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Particulates (normalised)																		
Min	0.3	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4
Ave	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Max	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.6	0.4
30m ELV exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exceeds daily ELV ?	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
VOC (normalised)																		
Min	0	0	0	0	0	1.1	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	0.9
Ave	0	0	0	0	1.1	1.5	1.2	1.2	1	1	1.2	1.6	1	1	1	1	1	1
Max	0	0	0	0	2.6	2	1.5	2.1	1	1.1	1.7	3.4	1	1.3	1.2	1	1.7	1.3
30m ELV exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exceeds daily ELV ?	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

NOTES
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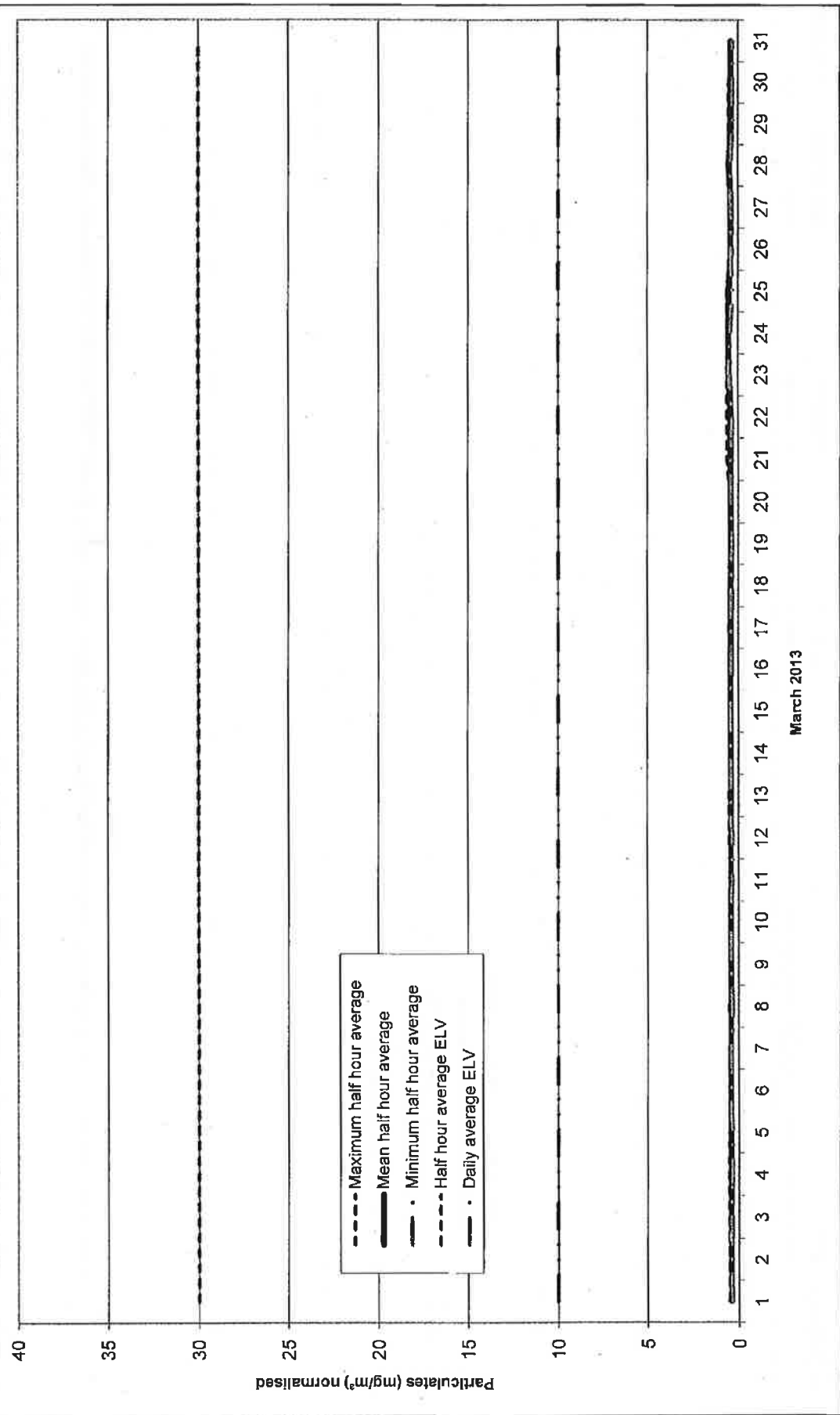
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Title:	Reporting Incinerator CEM Particulates	Area:	Manufacturing	Issue No.:	1
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Related Document:	BU2357/AP3634 A4	Created on:	21-12-2006	Page:	1 of 1





Title:	Reporting Incinerator CEM TOC	Issue No.:	1
Ref:		Date of Issue:	21/12/2006
Related Document:	BU2357/AP3634 A5	Page:	1 of 1
Area:	Manufacturing		
Last printed:	11/04/2013		
Created on:	21-12-2006		

