

St Neofs Emissions Spreadsheet: Summary of Emissions Estimates January- December 2002

Calculated for following period:

Start Date:

Jan-02

End Date:

Dec-02

Emission Group		Estimation Technique	VBS E% Max	VBS E% Actual	Estimated Emission, Kg/Yr
Solvent Storage Tanks		EPA AP-42 Breathing & Loading	100%	0%	2,257
Mixers: Solvent Loading		EPA AP-42 Loading	100%	100%	-
Mixers: Solids Loading & Solvation		EIIP Model	0%	0%	7,628
Bulk Tanks: SF Loading		EPA AP-42 Loading	100%	100%	-
Bulk Tanks: Homogenization		EPA AP-42 Loading	100%	100%	-
Bulk Tanks: Breathing		EPA AP-42 Breathing	0%	0%	727
Bulk Packing		EPA AP-42 Loading	100%	75%	325
Tote Packing (180)		EPA AP-42 Loading	100%	75%	112
Drum Packing		EPA AP-42 Loading	0%	0%	6,760
Misc. Packing		EPA AP-42 Loading	0%	0%	60
Total Plant					17,869

That could be
increased

actually measured

* Through the year
 low level of
 emissions
 * The low level of
 emissions
 * The low level of
 emissions

St. Neots VOC Emissions Inventory

Material Properties

Bulk Solvents at Storage Conditions -- 13 C (55 F)

Temp. Conversion

Matl.	Annual Avg. Storage Temperature, F	Avg. Diurnal Temperature Change, F	TVP, psia	Avg. MW, lbs/lb-mol	Note
SQUO	55 <i>12.8 C</i>	0	2	82.4	
ACET	55	0	2.9	58	
PENTO	55	13.5	0.5	100	

	C	F
Bulk Storage	13	55
Packaging	20	68
B/T Breathing	22	72
Homog Pass	50	122
B/T Loading	60	140
initial bp, SQUO	55	131

SLC Products at B/T Loading (SF Reception) Conditions -- 60 C (140 F)

Matl.	Annual Avg. Storage Temperature, F	Avg. Diurnal Temperature Change, F	TVP, psia	Avg. MW, lbs/lb-mol	Note
100A	140	na	11.7	83.8	100% SQUO
9291	140 <i>60 C</i>	na	11.7	83.8	100% SQUO
235	140	na	8.1	91.9	50:50 SQUO:PENTO
239	na	na	na	na	100% ACET

SLC Products at B/T Homog Pass Conditions -- 50 C (122 F)

Matl.	Annual Avg. Storage Temperature, F	Avg. Diurnal Temperature Change, F	TVP, psia	Avg. MW, lbs/lb-mol	Note
100A	122	na	8.4	83.6	100% SQUO
9291	122	na	8.4	83.6	100% SQUO
235	122	na	5.7	91.8	50:50 SQUO:PENTO
239	na	na	na	na	100% ACET

SLC Products at B/T Breathing Conditions -- 22 C (72 F)

Matl.	Annual Avg. Storage Temperature, F	Avg. Diurnal Temperature Change, F	TVP, psia	Avg. MW, lbs/lb-mol	Note
100A	72	6	2.9	82.7	100% SQUO
9291	72	6	2.9	82.7	100% SQUO
235	72	6	1.9	91.4	50:50 SQUO:PENTO
239	na	na	na	na	100% ACET

SLC Products at Packaging Conditions -- 20 C (68 F)

Matl.	Annual Avg. Storage Temperature, F	Avg. Diurnal Temperature Change, F	TVP, psia	Avg. MW, lbs/lb-mol	Note
100A	68	na	2.7	82.7	100% SQUO
9291	68	na	2.7	82.7	100% SQUO
235	68	na	1.7	91.4	50:50 SQUO:PENTO
239	68	na	na	na	100% ACET

Mixer Emissions Calculations

August
1999

Using methods based on:

Emission Inventory Improvement Program
Preferred and Alternative Methods for Estimating Air
Emissions from Paint and Ink Manufacturing Facilities
USEPA

4.1.1 Material Loading (loading of Solids only)

$$[\text{equation 8.4-1}] \quad E(\text{VOC}) = 12.46 * S * P * M * Q / T$$

variable	value	units	comment
E(VOC)	2926.97102	lb	
S	1	dim'less	assume S = 1 (overestimate)
P	2.00	psia	VP hexane at T=55 F
M	86.00	lb/lb-mol	
Q	703.36	1000 gal	throughput for all mixers x 40%
T	515	T(R)	=T(F) + 460

4.1.2 Heat-up Losses

$$[\text{equation 8.4-10}] \quad E(\text{VOC}) = \frac{(TVP, T1 / (14.7 - TVP, T1)) + (TVP, T2 / (14.7 - TVP, T2)) * dn * Ma * CYC}{2}$$

variable	value	units	comment
E(VOC)	11841.4837	lb	
TVP, T1	2	psia	VP at initial batch temp
TVP, T2	11.7	psia	VP at final batch temp
dn	0.04899102	lb-mol/cycle	calc'd by equation 8.4-11, below
Ma	86	lb/lb-mol	molecular weight
CYC	1441.28811	cycles	batches per period = tput/3700 (avg capacity)

	T	VP
T1	55	2
T2	140	11.7
	BS	
SSW	2400	Kg
LSW	4800	
MM	4800	
ACET SW	2800	
Avg	14800	

$$[\text{equation 8.4-11}] \quad dn = (V / R) * ((Pa1 / T1) - (Pa2 / T2))$$

variable	value	units	comment
dn	0.04899102	lb-mol/cycle	
V	26.7379679	ft ³	mixer nominal - working capacity = 200 gal
R	10.73	psia * ft ³ /lb-mol * R	ideal gas constant
Pa1	12.7	psia	14.7 - TVP, T1 (from above)
Pa2	3	psia	14.7 - TVP, T2 (from above)
T1	515	T(R)	T1 = 55 F
T2	600	T(R)	T2 = 140 F

4.1.4 Surface Evaporation

$$[\text{equation 8.4-18}] \quad Ex = Mx * Kx * A * Px * 3600 * H * B / R * T$$

variable	value	units	comment
Ex	2012.89344	lb	calculate for all species based on tvp and amw
Mx	86	lb/lb-mol	average molecular weight
Kx	0.00446549	ft/sec	calc'd below from equation 8.4-17
A	1.39555556		based on 18" ID mixer hatch
Px	2		calc'd at Tavg
H	2	hr/batch	open vessel batch time = 2 hrs/batch
B	1441.28811		batches per period
R	10.73	psia * ft ³ /lb-mol * R	
T	515		use T1

$$[\text{equation 8.4-17}] \quad Kx = 0.00438 * U^{0.78} * (18/Mx)^{0.333}$$

variable	value	units	comment
Kx	0.00446549	ft/sec	
U	2	mile/hr	assume wind speed in closed vessel is 2 mph
Mx	86	lb/lb-mol	average molecular weight

E P A R E P O R T Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 14 Aug 2002

Company: DAREX UK LTD

CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER

Contact: MR. G. DRAPER
(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period:

3.00 hours

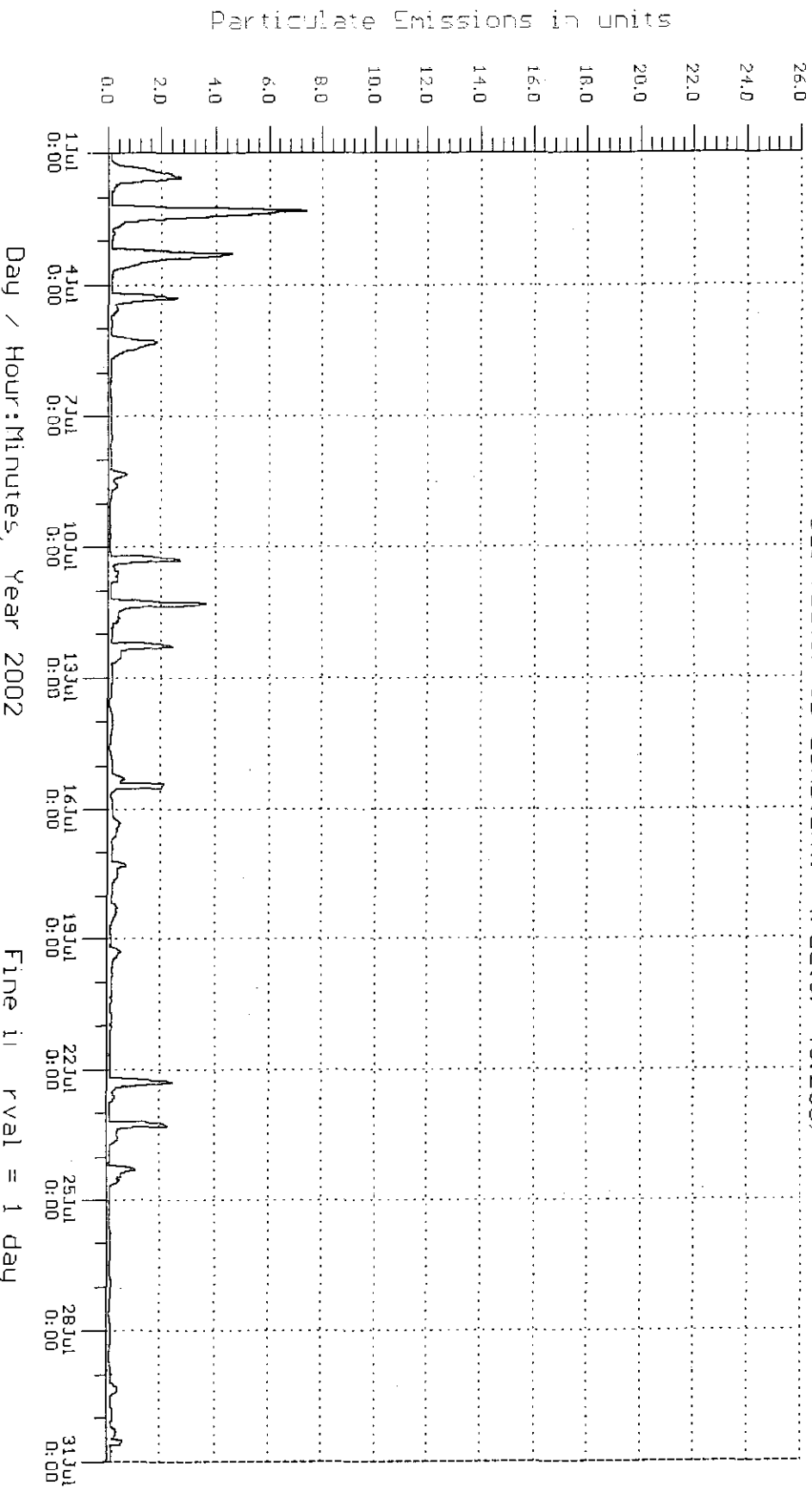
Average emission level:

0.377

Maximum time-weighted average emission level:

7.35

Cal factor is constant. (Factor=45.200)



Aug 02

E P A R E P O R T Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 4 Oct 2002

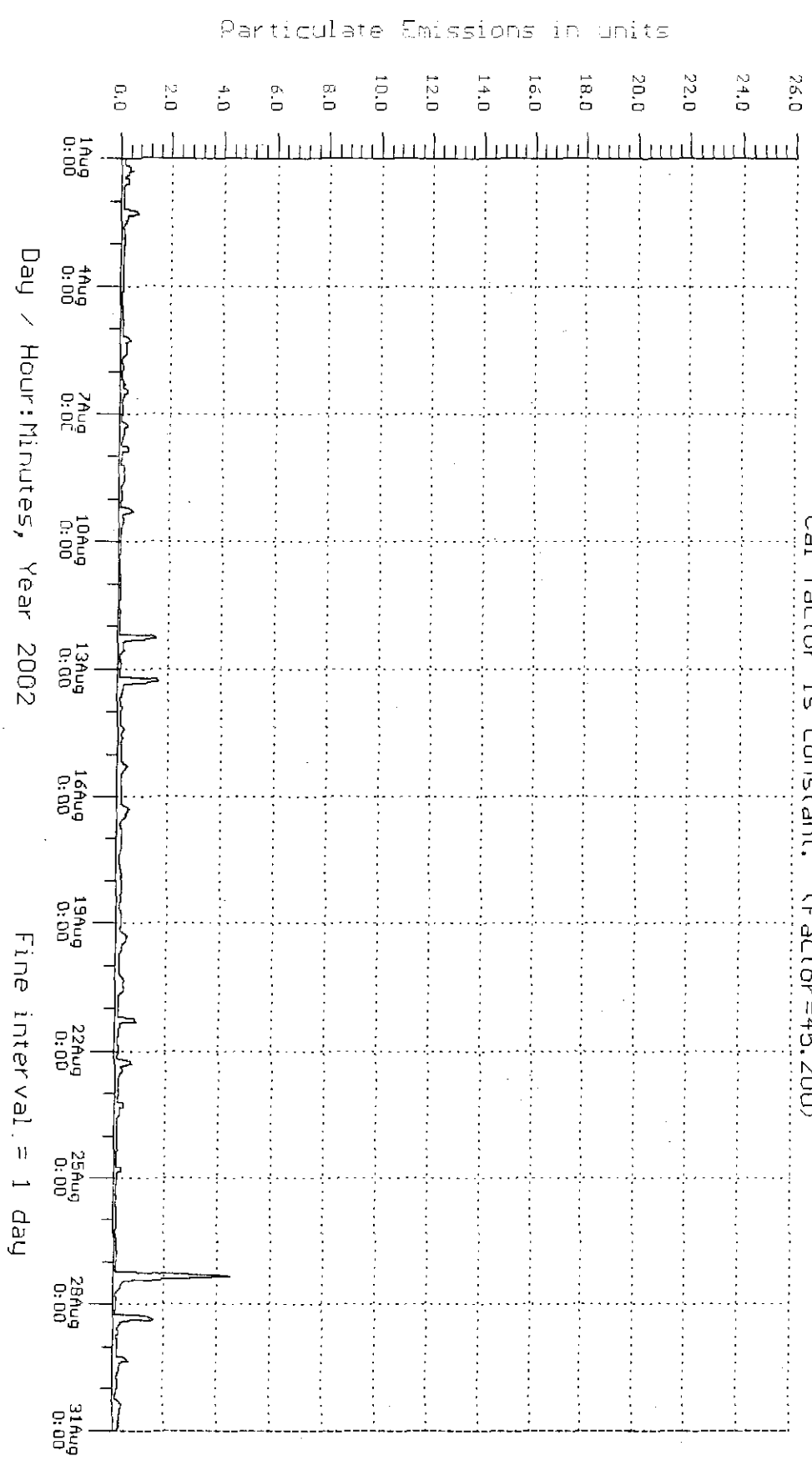
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.

Contact: MR. G. DRAPER
(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 0.207
Maximum time-weighted average emission level: 4.48

Cal factor is constant. (Factor=45.200)



Sep 02

E P A R E P O R T Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 4 Oct 2002

Company: DAREX UK LTD

CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER

Contact: MR. G. DRAPER
(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period:

3.00 hours

Average emission level:

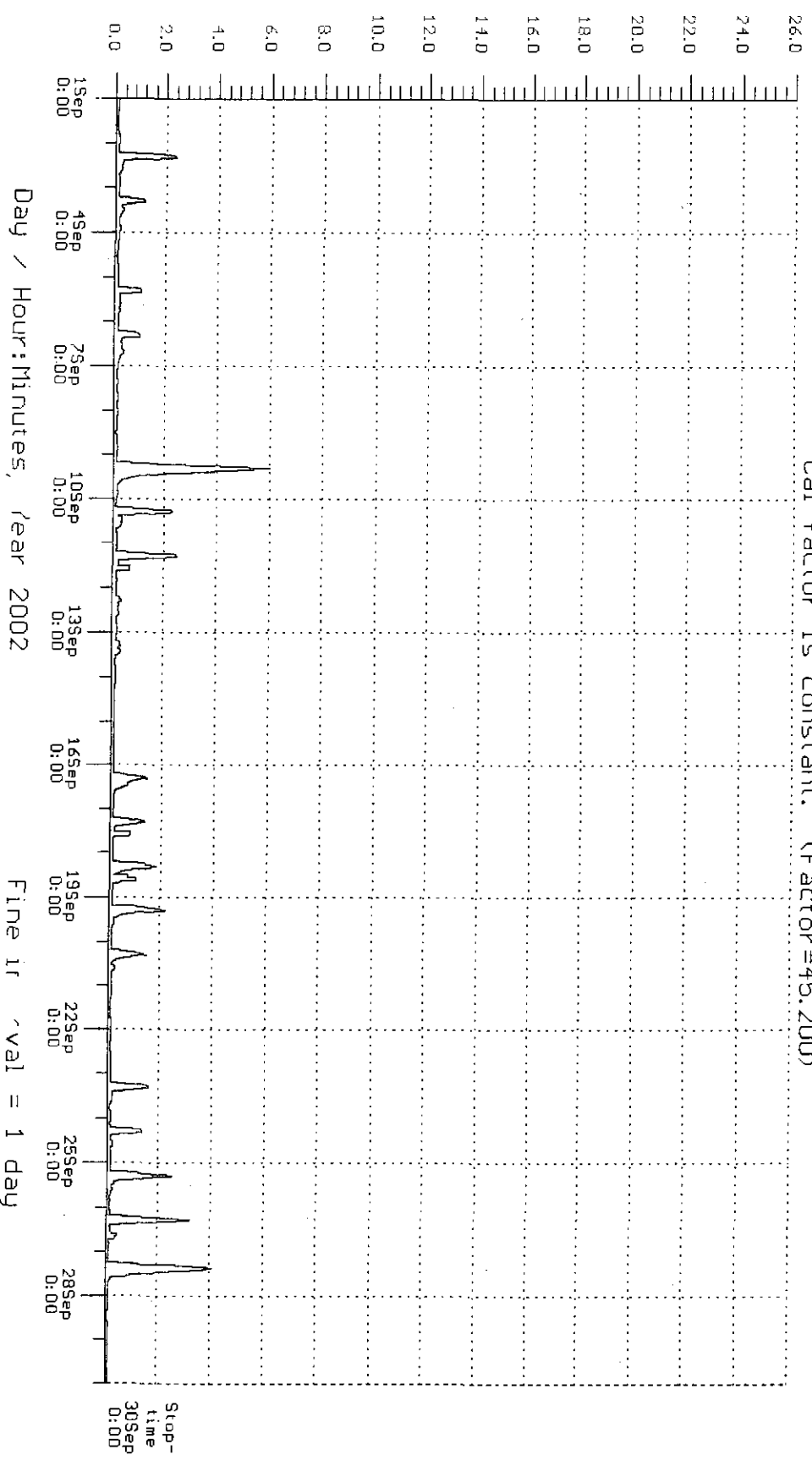
0.330

Maximum time-weighted average emission level:

6.03

Cal factor is constant. (Factor=45.200)

Particulate Emissions in units



E P A R E P O R T Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 6 Dec 2002

Company: DAREX UK LTD

CROMWELL ROAD, ST. NEOTS.

Contact: MR. G. DRAPER

(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period:

Average emission level:

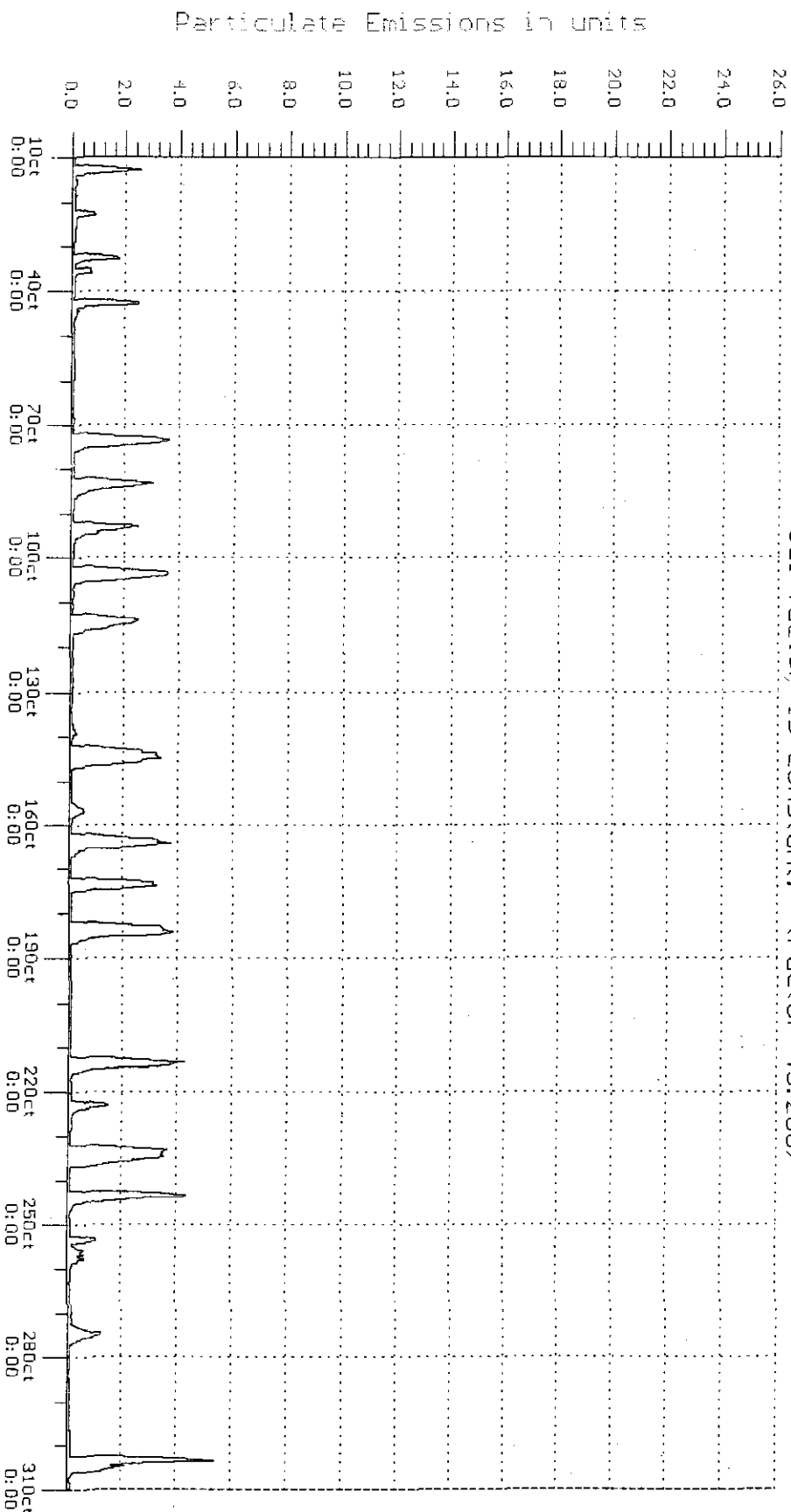
Maximum time-weighted average emission level:

3.00 hours

0.514

5.42

Cal factor is constant. (Factor=45.200)



Day / Hour:Minutes, Year 2002

Fine interval = 1 day

Oct 02

Nov 02

E P A R E P O R T Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 6 Dec 2002

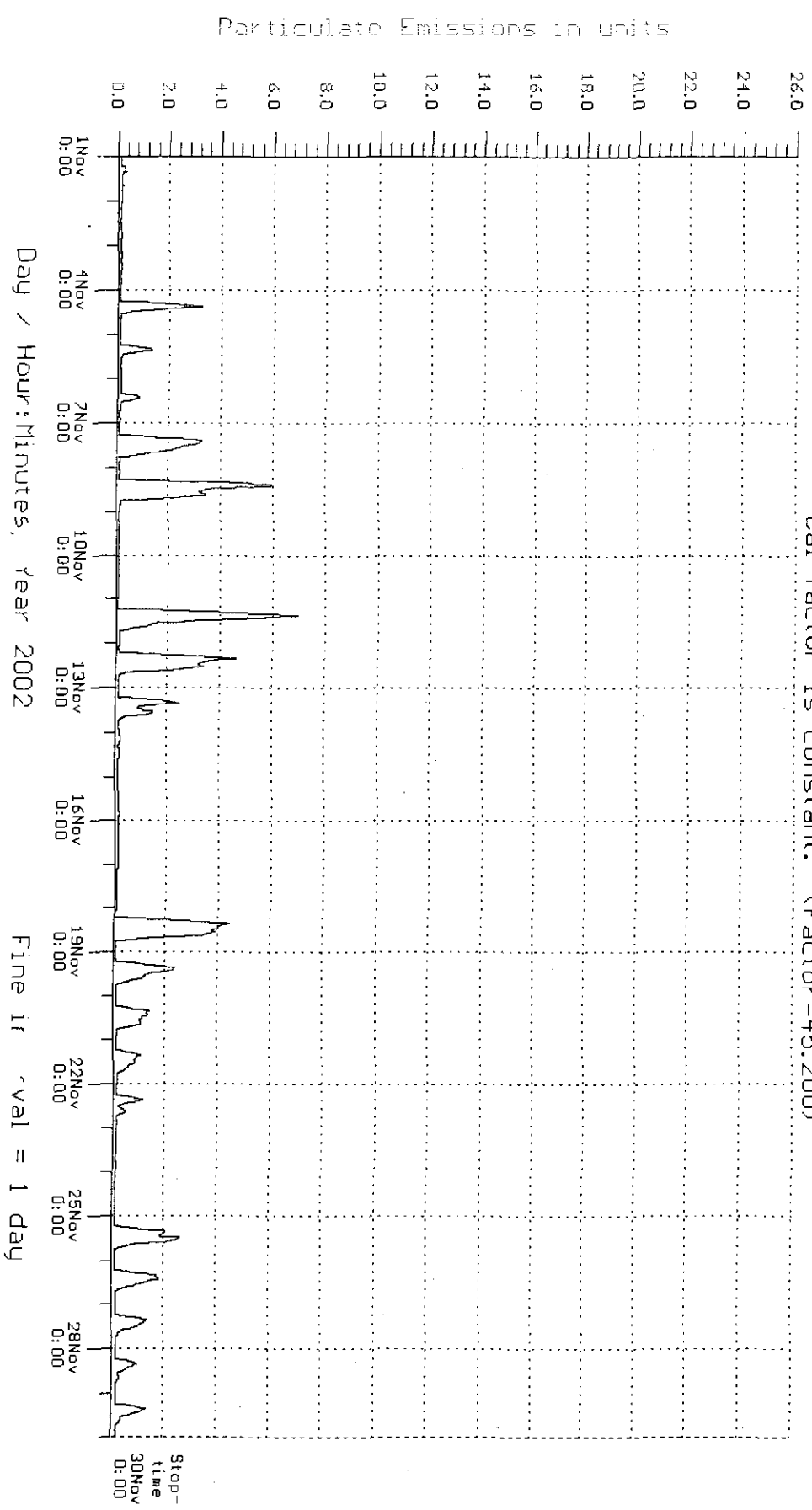
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.

Contact: MR. G. DRAPER
(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 0.512
Maximum time-weighted average emission level: 6.97

Cal factor is constant. (Factor=45.200)



E P A R E P O R T Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 11 Feb 2003

Company: DAREX UK LTD

CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER

Contact: MR. G. DRAPER
(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period:

3.00 hours

Average emission level:

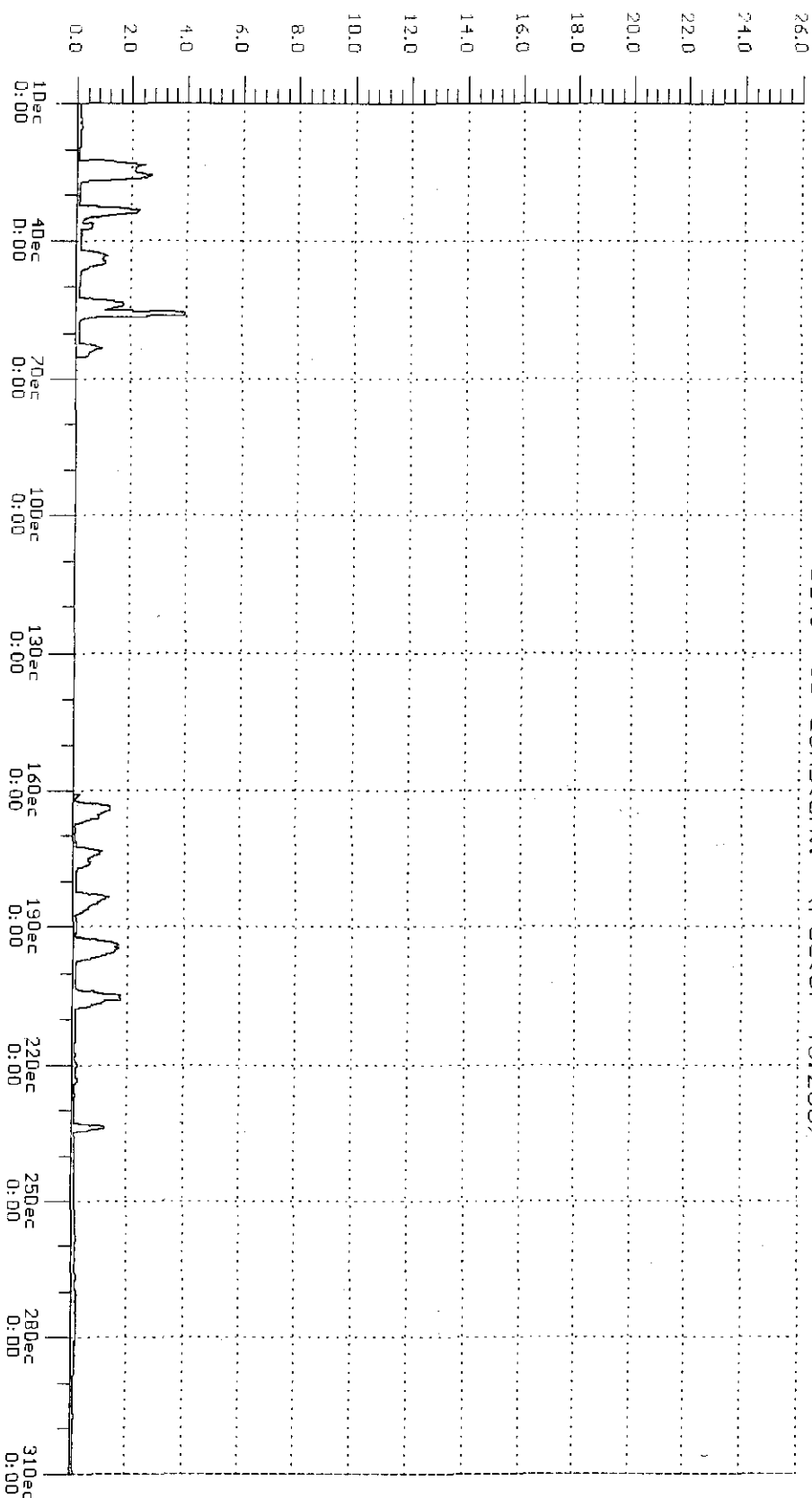
0.361

Maximum time-weighted average emission level:

3.97

Cal factor is constant. (Factor=45.200)

Particulate Emissions in units



Day / Hour:Minutes, Year 2002

Fine interval = 1 day

Jan 03

E P A R E P O R T Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 11 Feb 2003

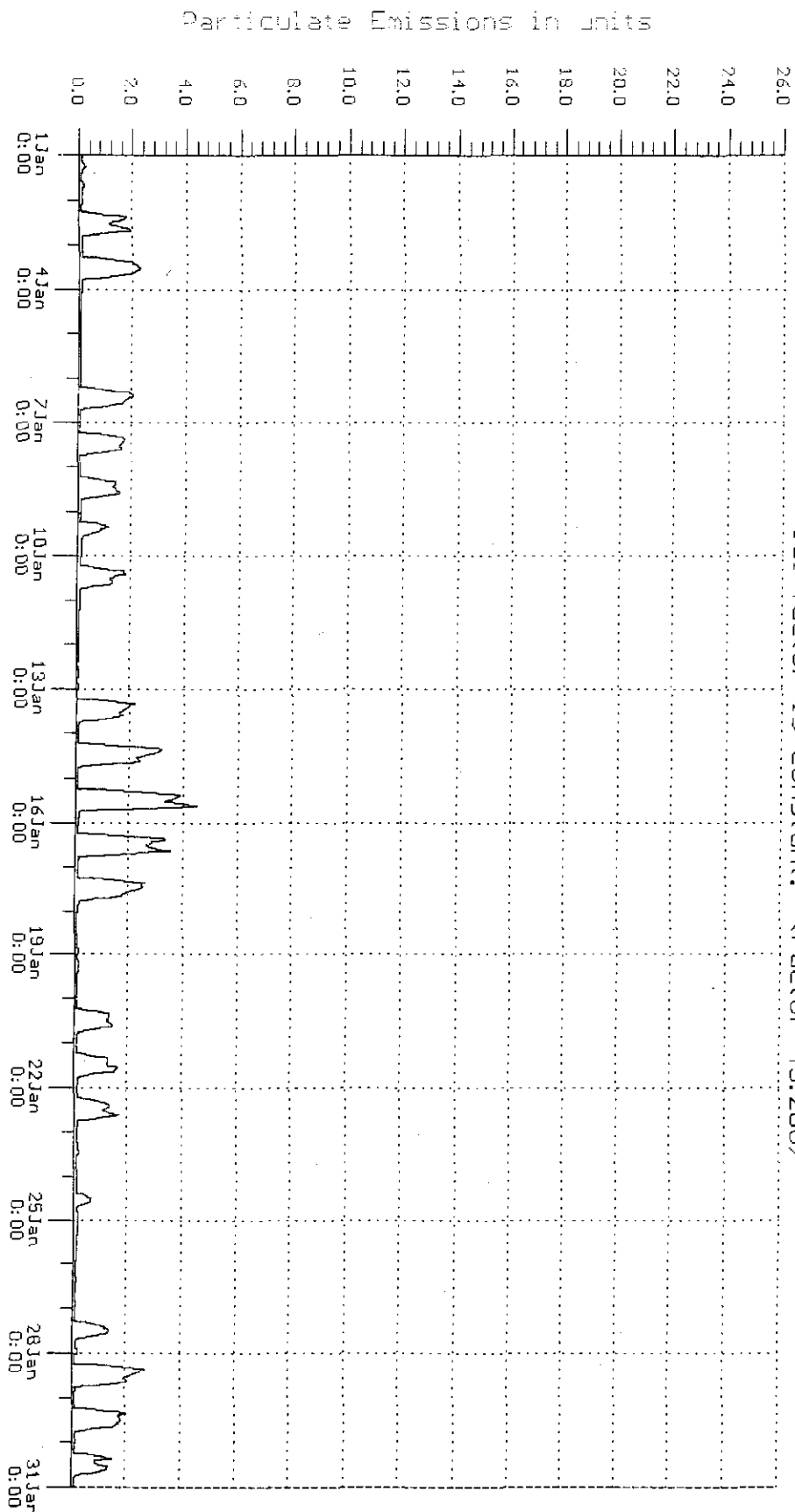
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.

Contact: MR. G. DRAPER
(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 0.552
Maximum time-weighted average emission level: 4.49

Cal factor is constant. (Factor=45.200)



E P A R E P O R T Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 16 Apr 2003

Company: DAREX UK LTD

CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER

Contact: MR. G. DRAPER
(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period:

3.00 hours

Average emission level:

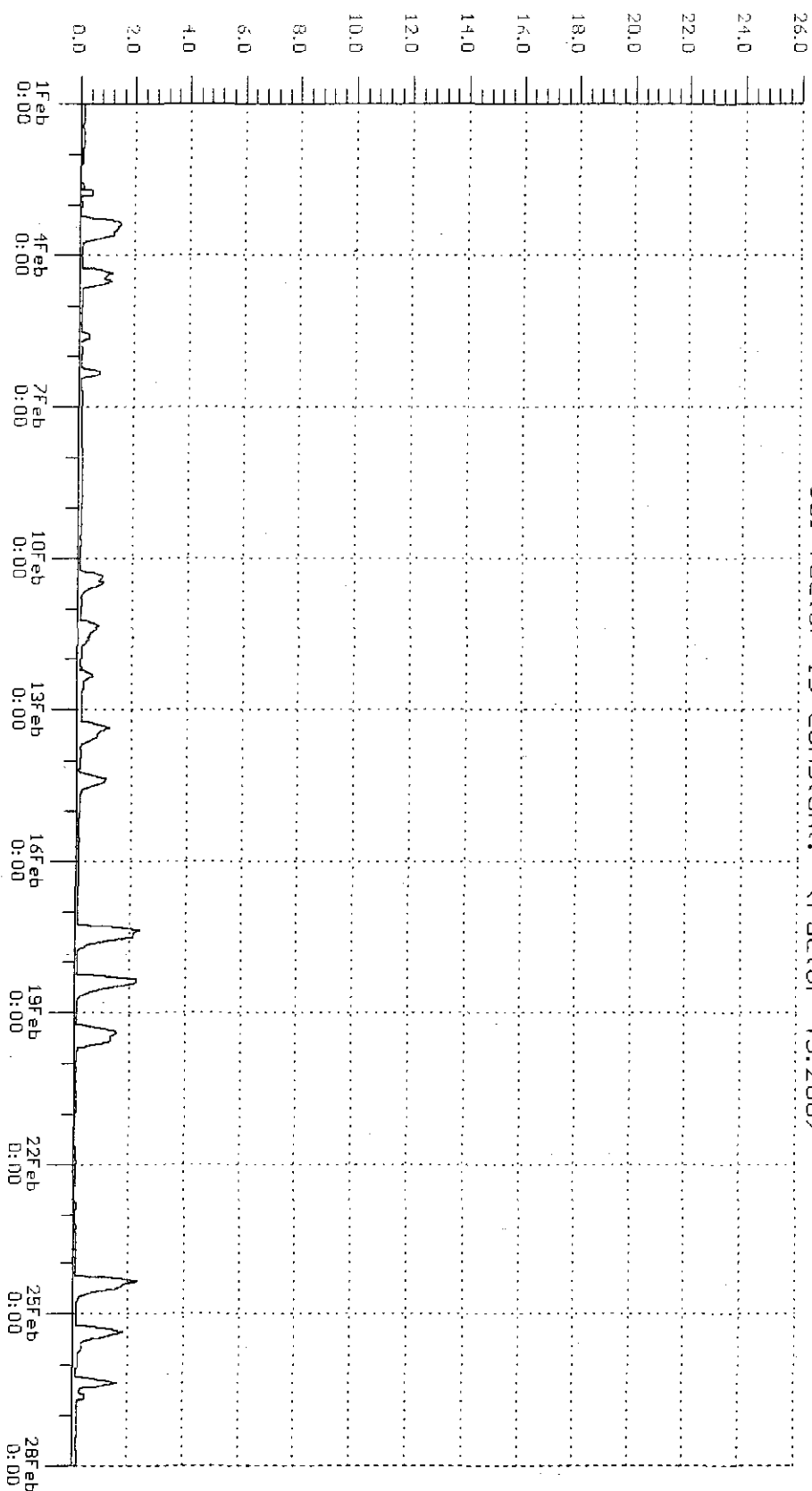
0.277

Maximum time-weighted average emission level:

2.35

Cal factor is constant. (Factor=45.200)

Particulate Emissions in units



Day / Hour:Minutes, Year 2003

Fine Interval = 1 day

FEB 03

MAR 03

E P A R E P O R T Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 16 Apr 2003

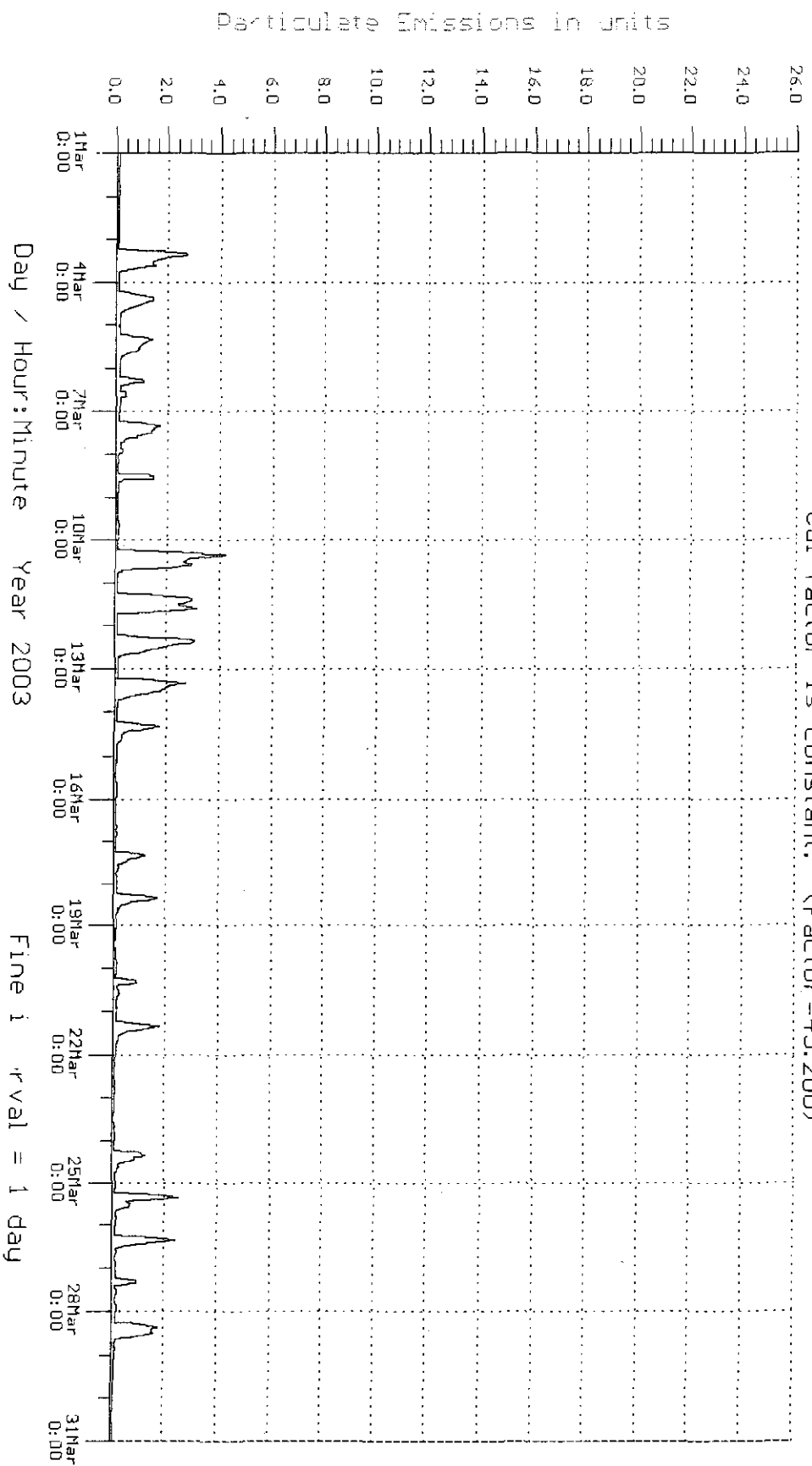
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER

Contact: MR. G. DRAPER
(01480) 324459

EPA authorisation number(s):

Requested data averaging time period: 3.00 hours
Average emission level: 0.403
Maximum time-weighted average emission level: 4.20

Cal factor is constant. (Factor=45.200)



E P A R E P O R T Channel: Banbury (Address 01) (revision 6.2e 07.03.2000)

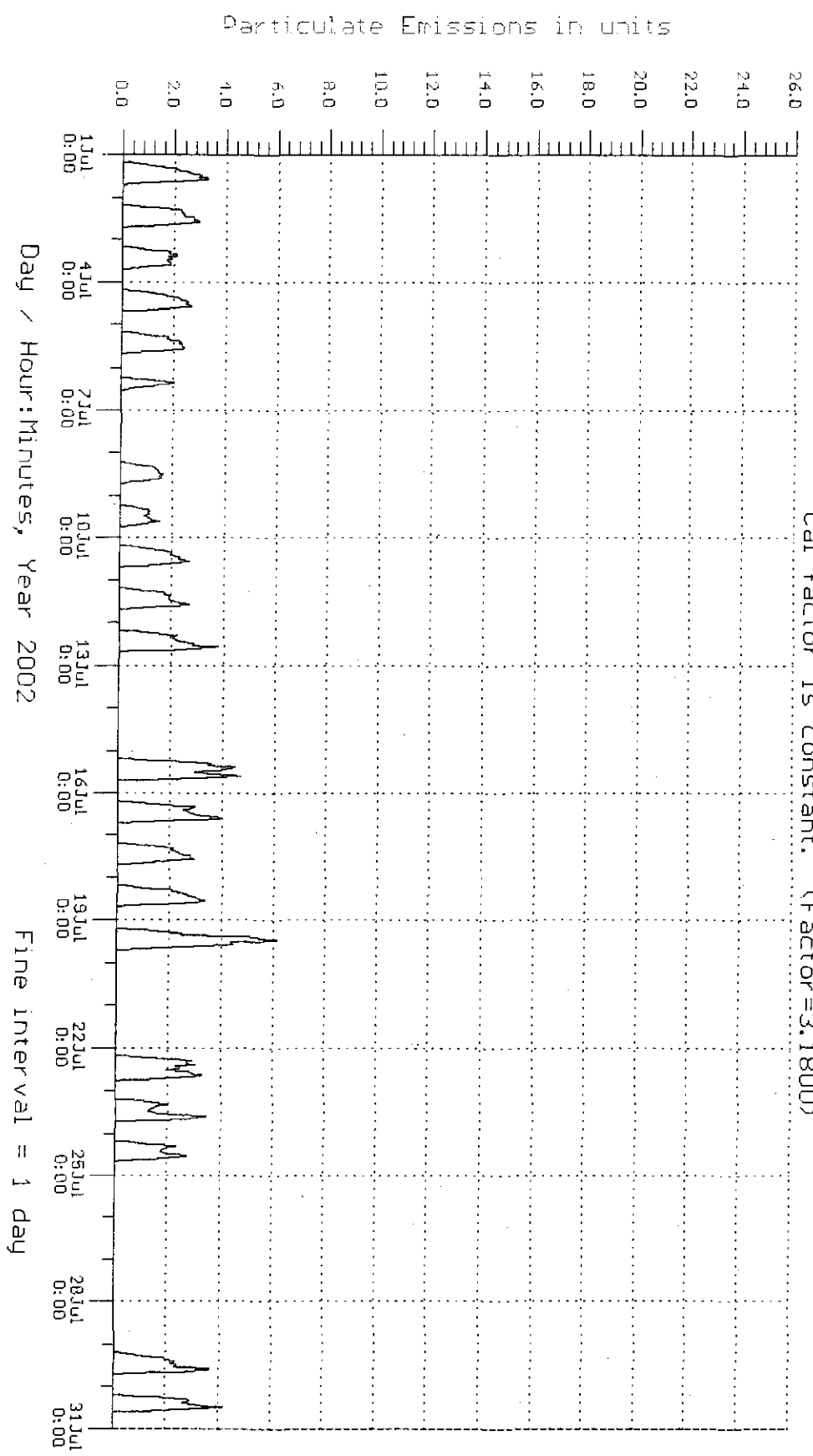
Date: 14 Aug 2002
 Company: DAREX UK LTD
 CROMWELL ROAD, ST. NEOTS.
 CAMBS. PE192ER

Contact: MR. G. DRAPER
 (01480) 324459

EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
 Average emission level: 1.58
 Maximum time-weighted average emission level: 6.14

Cal factor is constant. (Factor=3.1800)



Aug 02

E P A R E P O R T Channel: Banbury (Address 01) (revision 6.2e 07.03.2000)

Date: 4 Oct 2002

Company: DAREX UK LTD

CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER

Contact: MR. G. DRAPER
(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period:

3.00 hours

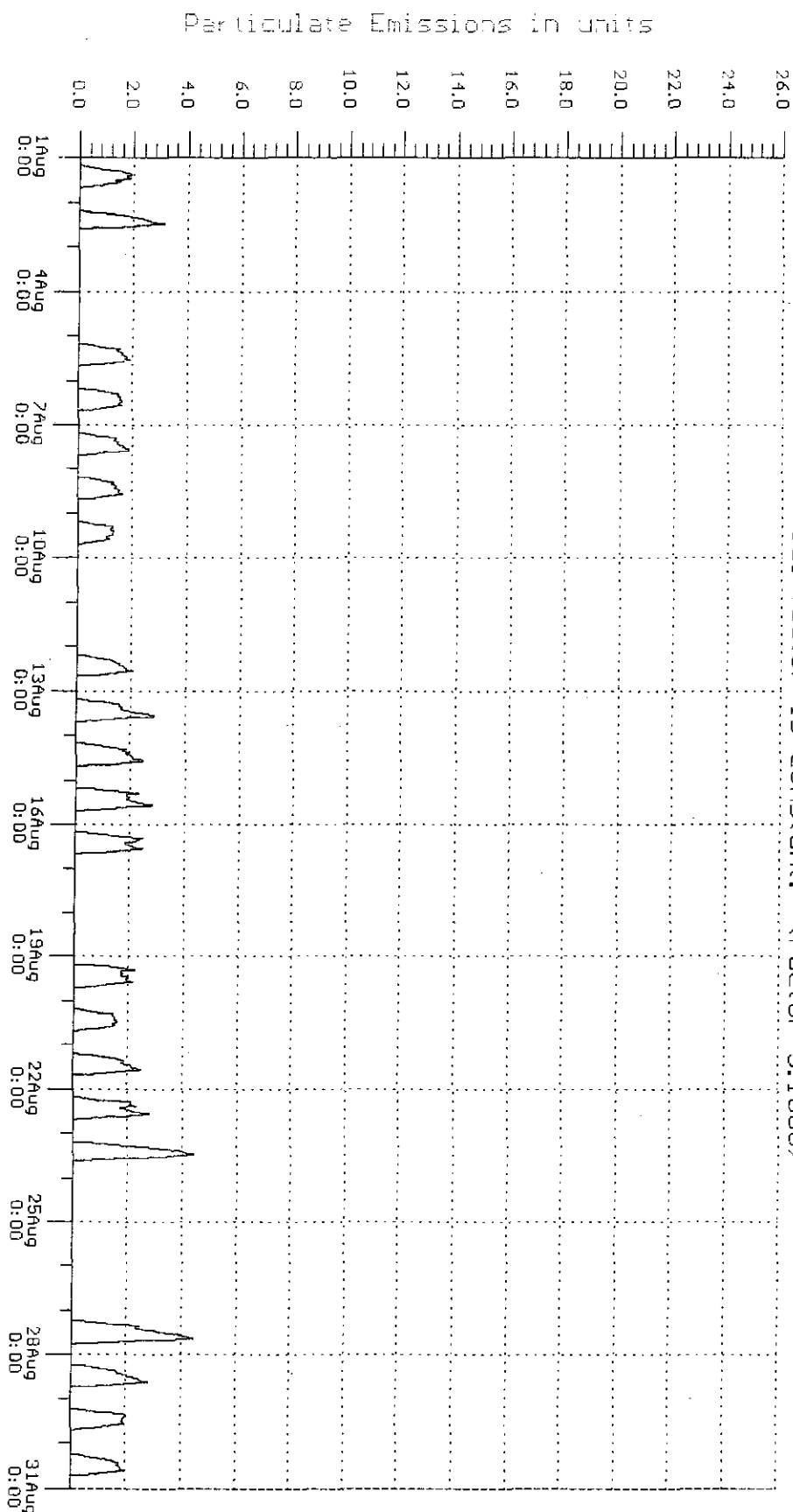
Average emission level:

1.21

Maximum time-weighted average emission level:

4.44

Cal factor is constant. (Factor=3.1800)



Day / Hour:Minutes, Year 2002

Fine II rval = 1 day

Date: 4 Oct 2002

Company: DAREX UK LTD

CROMWELL ROAD, ST. NEOTS.

Contact: MR. G. DRAPER

(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period:

3.00 hours

Average emission level:

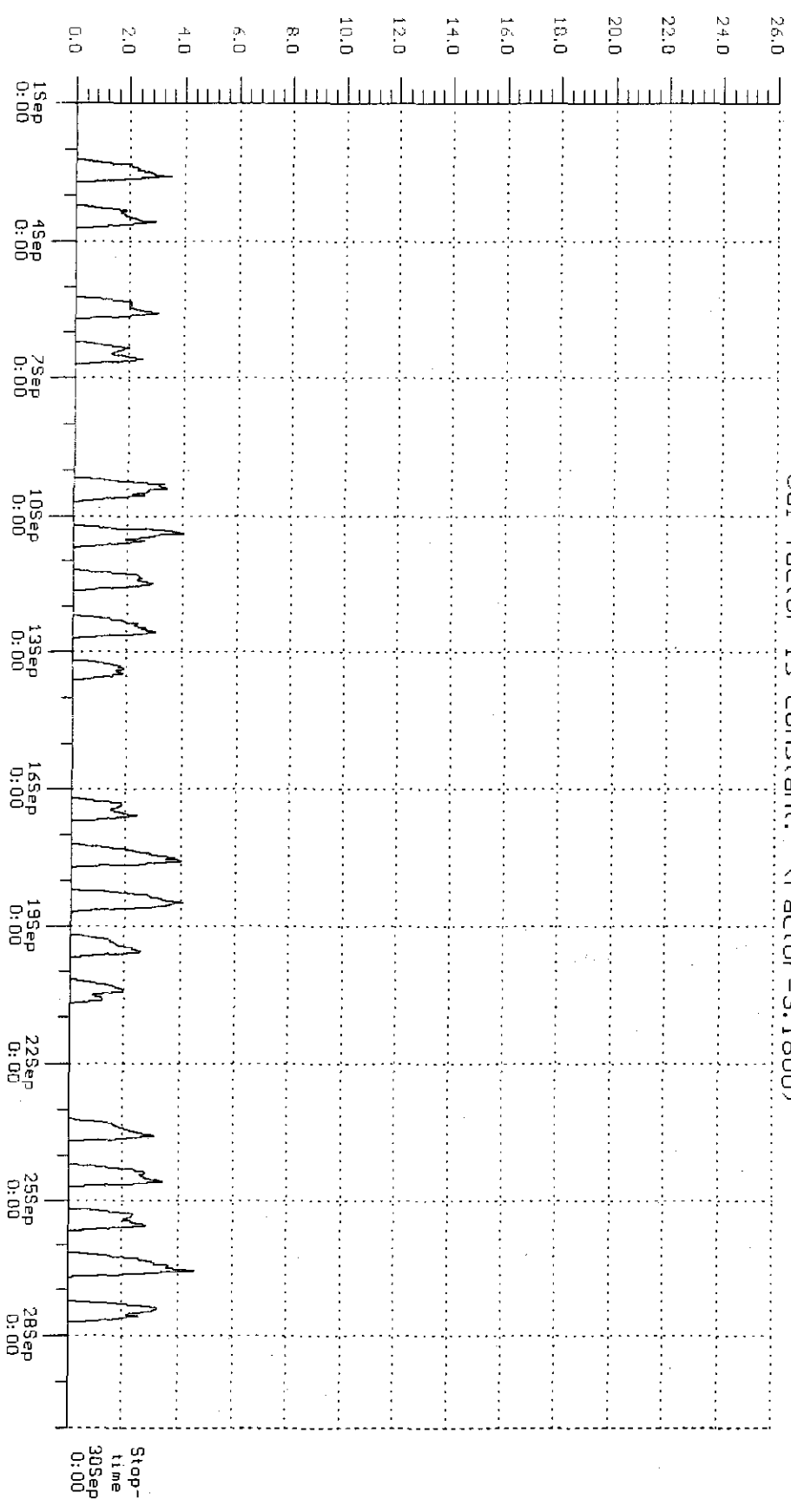
1.48

Maximum time-weighted average emission level:

4.60

Cal factor is constant. (Factor=3.1800)

Particulate Emissions in units



E P A R E P O R T Channel: Banbury (Address 01) (revision 6.2e 07.03.2000)

Date: 6 Dec 2002

Company: DAREX UK LTD

CROMWELL ROAD,
CAMBS. PE192ER

Contact: MR. G. DRAPER

(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period:

3.00 hours

Average emission level:

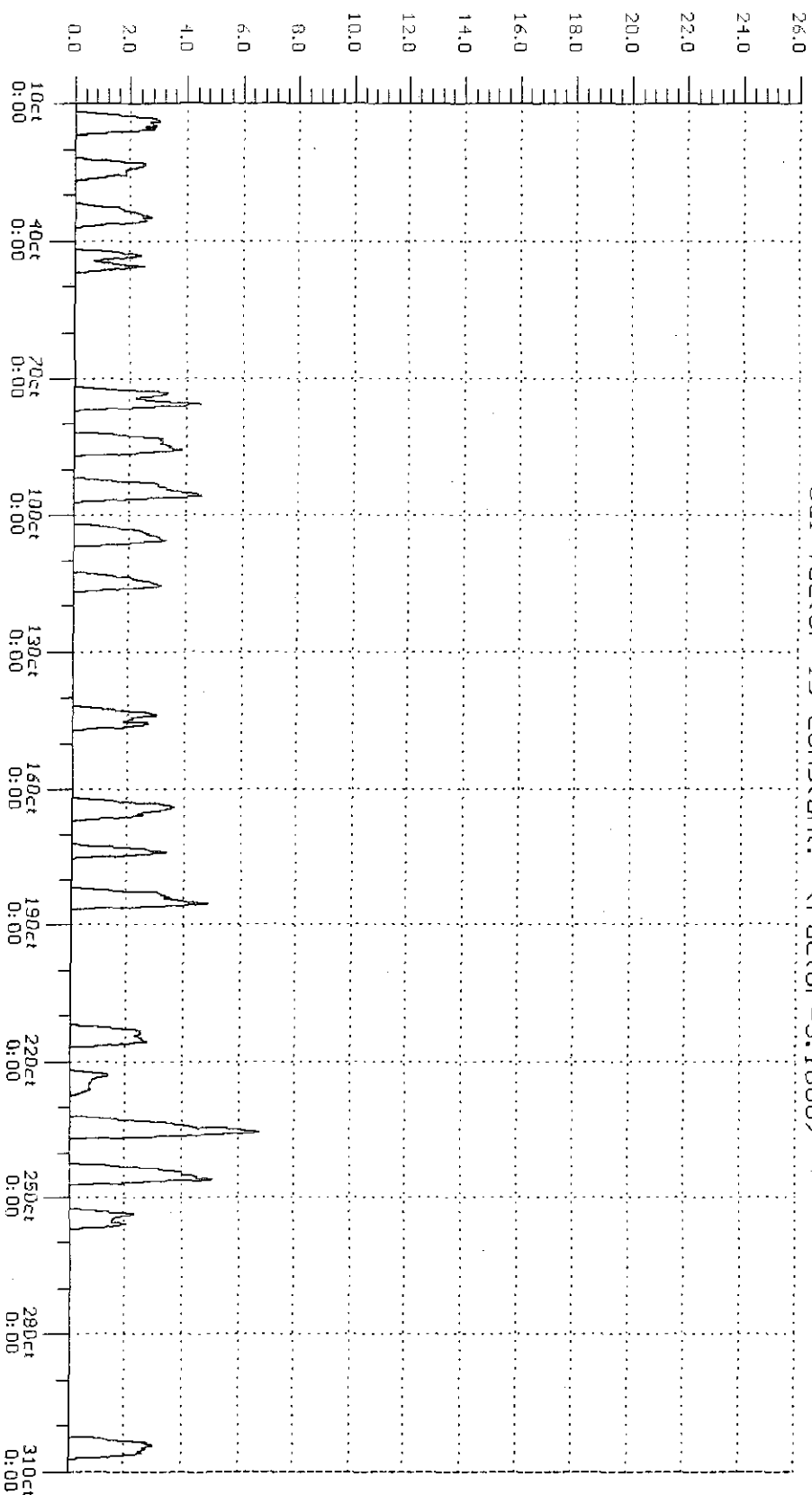
1.69

Maximum time-weighted average emission level:

6.75

Cal factor is constant. (Factor=3.1800)

Particulate Emissions in units



Day / Hour:Minute Year 2002

Fine i r val = 1 day

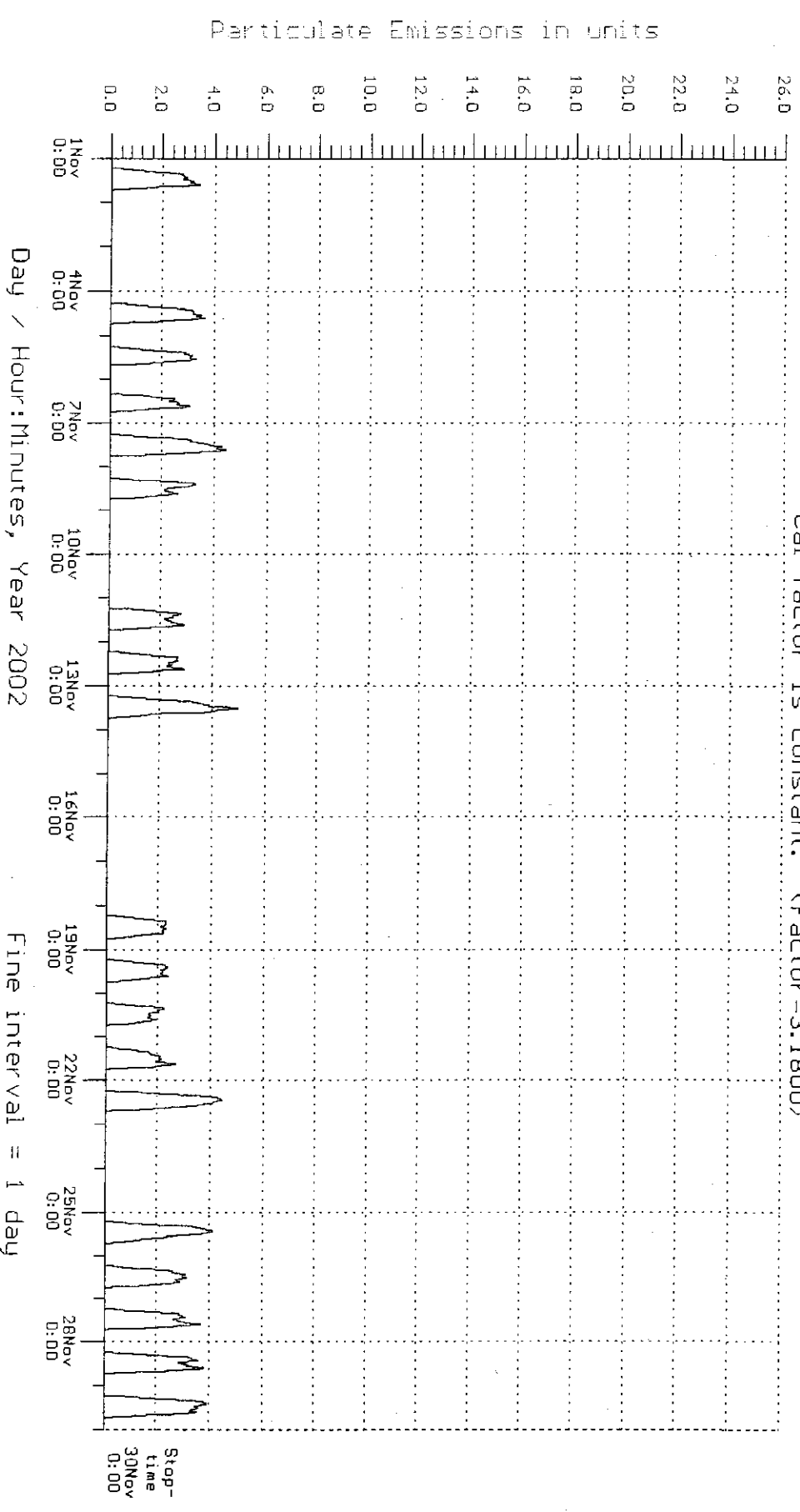
NOV 02

E P A R E P O R T Channel: Banbury (Address 01) (revision 6.2e 07.03.2000)

Date: 6 Dec 2002
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER
Contact: MR. G. DRAPER
(01480) 324459
EPA authorisation number(s):

Requested data averaging time period: 3.00 hours
Average emission level: 1.78
Maximum time-weighted average emission level: 4.97

Cal factor is constant. (Factor=3.1800)



E P A R E P O R T Channel: Banbury (Address 01) (revision 6.2e 07.03.2000)

Date: 11 Feb 2003

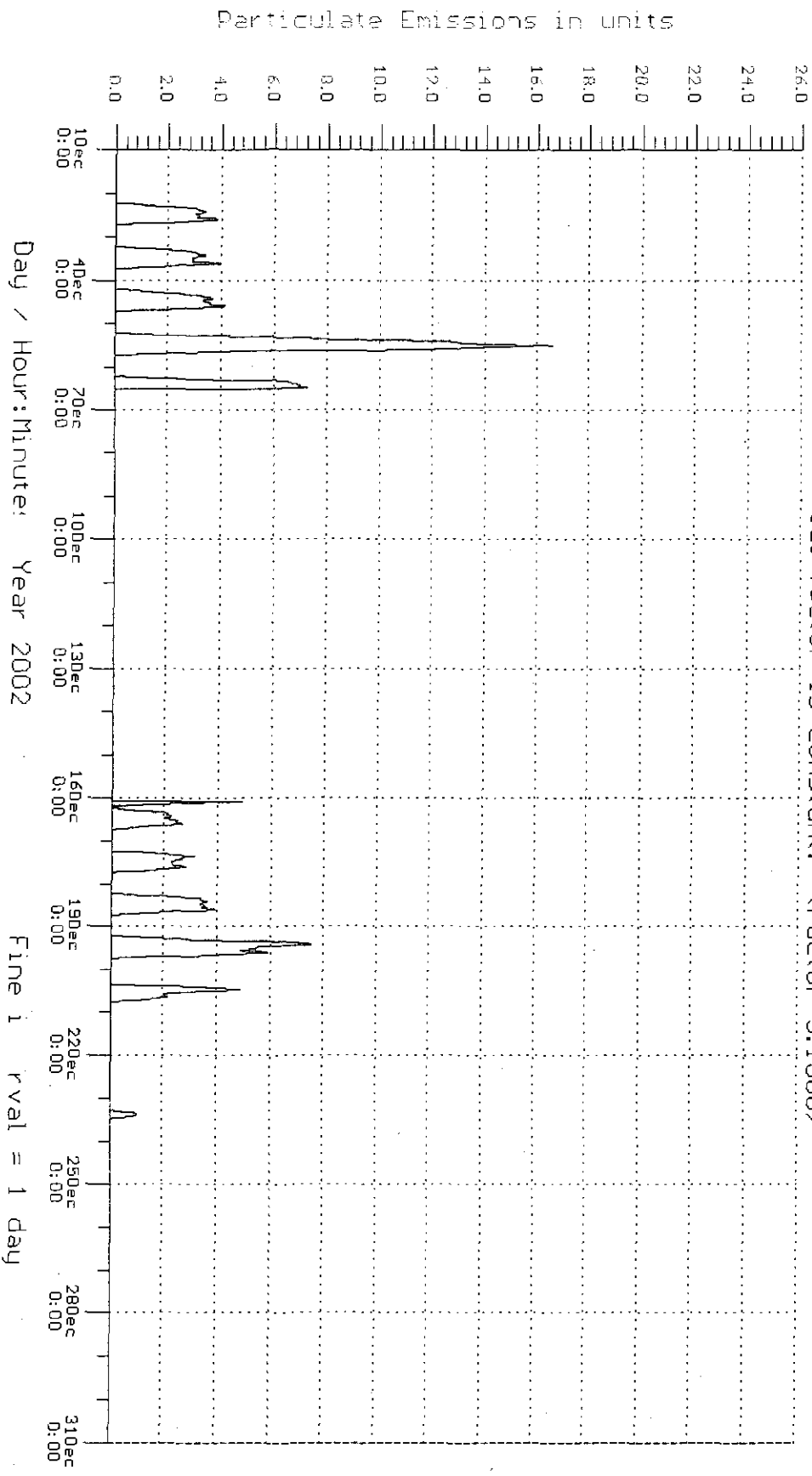
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER

Contact: MR. G. DRAPER
(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 2.65
Maximum time-weighted average emission level: 16.63

Cal factor is constant. (Factor=3.1800)



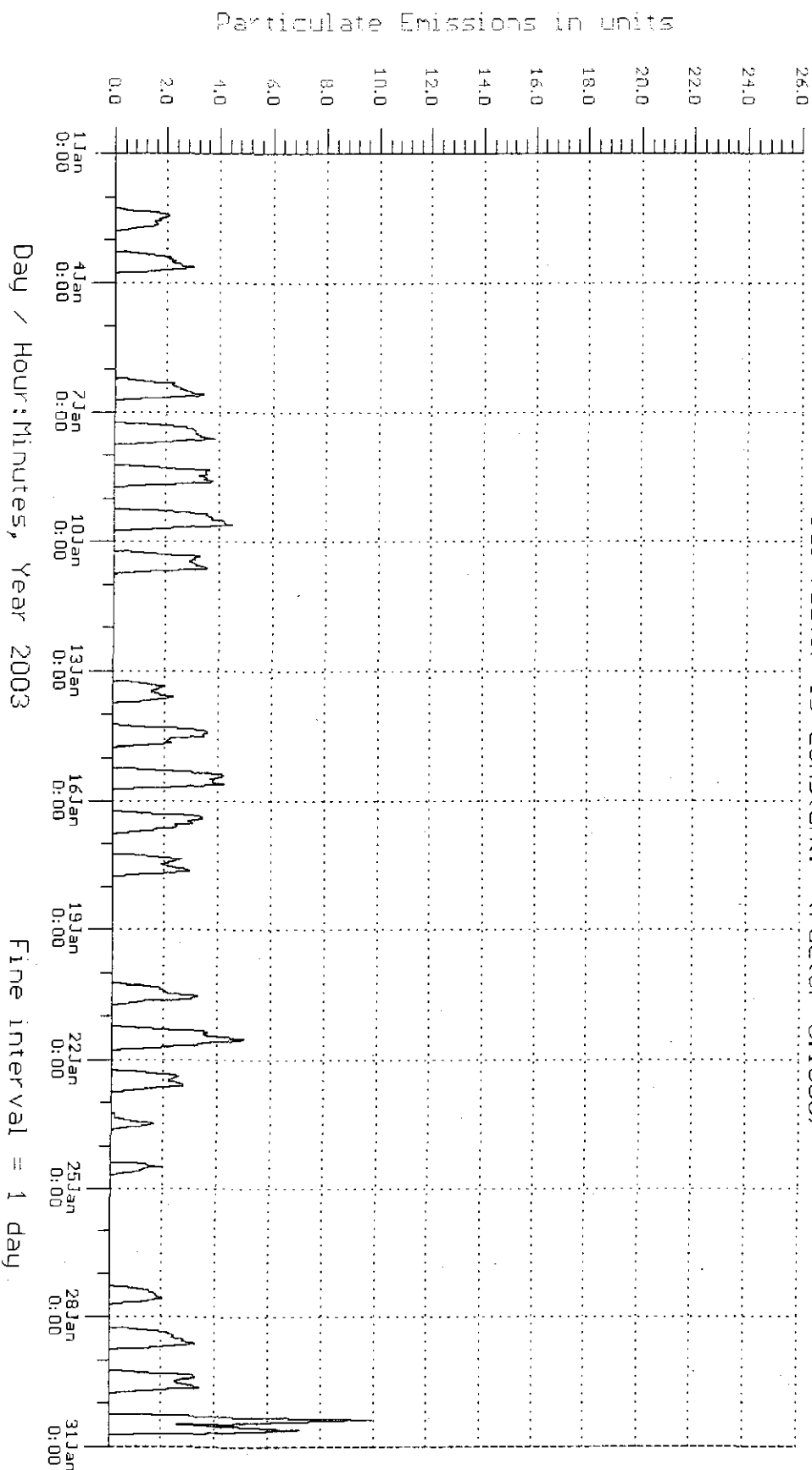
Dec 02

E P A R E P O R T Channel: Banbury (Address 01) (revision 6.2e 07.03.2000)

Date: 11 Feb 2003
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
Contact: MR. G. DRAPER
(01480) 324459
EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 2.05
Maximum time-weighted average emission level: 9.92

Cal factor is constant. (Factor=3.1800)



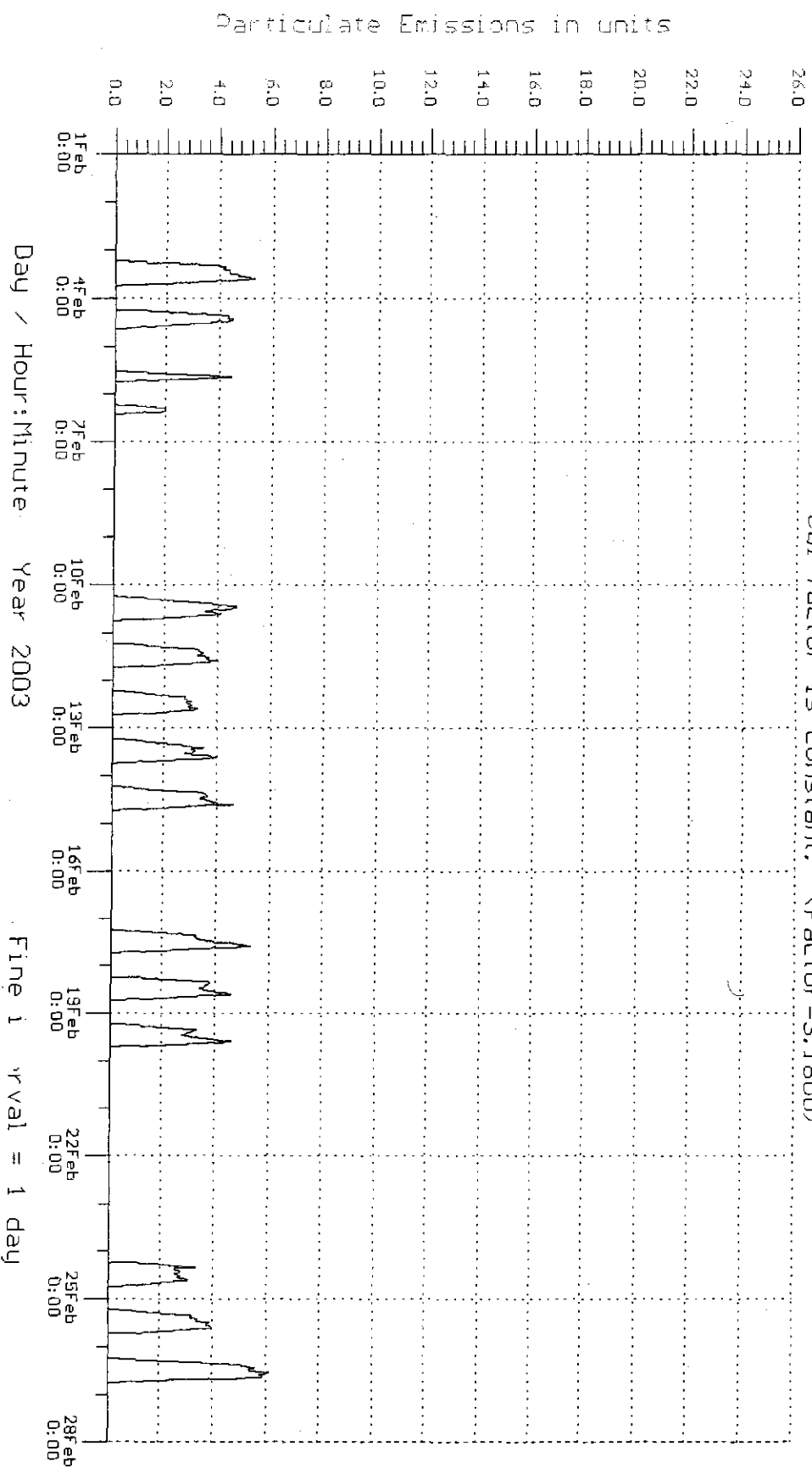
FEB 03

E P A R E P O R T Channel: Banbury (Address 01) (revision 6.2e 07.03.2000)

Date: 16 Apr 2003
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER
Contact: MR. G. DRAPER
(01480) 324459
EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 2.17
Maximum time-weighted average emission level: 6.12

Cal factor is constant. (Factor=3.1800)



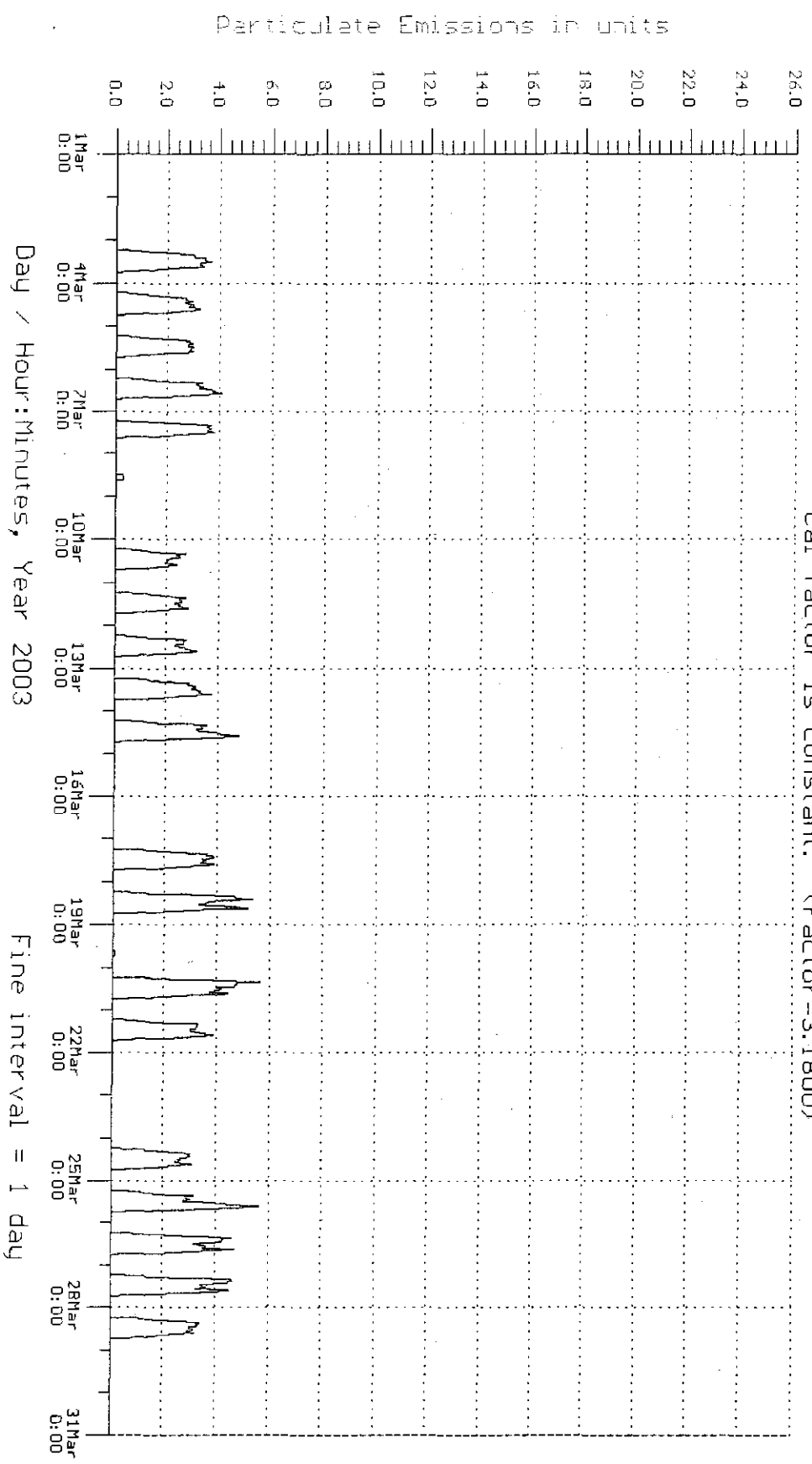
MAR 03

E P A R E P O R T Channel: Banbury (Address 01) (revision 6.2e 07.03.2000)

Date: 16 Apr 2003
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER
Contact: MR. G. DRAPER
(01480) 324459
EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 2.15
Maximum time-weighted average emission level: 5.65

Cal factor is constant. (Factor=3.1800)



August 12th 2002

Vent Monitorings

Mixer (Small) Struthers (to BT6) VENT 24		Solvent into Small Struthers VENT 25		Removal Venting Bulk Tanks to 2 VENT 26	
Time secs	Reading ppm	Time secs	Reading ppm	Time secs	Reading ppm
10.30 am		12.47 -13.02		12.00 am	
15	5	15	0	15	0
30	0	30	0	30	0
45	80.8	45	0	45	0
60	0	60	0	60	0
75	0	75	0	75	0
90	0	90	0	90	0
105	0	105	0	105	0
120	0	120	0	120	0
135	107.9	135	0	135	0
150	0	150	0	150	0
165	0	165	0	165	0
180	9.8	180	0	180	0
195	14.8	195	0	195	0
210	2.2	210	0	210	0
225	0	225	0	225	0
240	0	240	0	240	0
255	0	255	0	255	0
270	26.5	270	0	270	0
285	0.8	285	0	285	0
300	0	300	1.5	300	0
315	9.5	315	0	315	0
330	0	330	0	330	0
345	0	345	0	345	0
360	0	360	0	360	0
375	0	375	0	375	0
390	0	390	0	390	0
405	0	405	0	405	0
420	0	420	0	420	0
435	20.7	435	0	435	0
450	0	450	0	450	0
465	5.9	465	0	465	0
480	0	480	0	480	0
495	8.4	495	0	495	0
510	7.1	510	0	510	0
525	0	525	0	525	0
540	9.1	540	0	540	0
555	0	555	0	555	0
570	0	570	0	570	0
585	0	585	0	585	0
600	0	600	0	600	0
615	0	615	0	615	0
630	0	630	0	630	0
645	0	645	0	645	0
660	0	660	0	660	0
675	0	675	0	675	0
690	0	690	0	690	0
705	0	705	0	705	0
720	0	720	0	720	0
735	0	735	0	735	0
750	0	750	0	750	0
765	0.8	765	0	765	0
780	0	780	0	780	0
795	0	795	0	795	0
810	0	810	0	810	0
825	0	825	0	825	0
840	8.4	840	0	840	0
855	0	855	0	855	0
870	0	870	0	870	0
885	0	885	0	885	0
900	0	900	0	900	0
915	3.1	915	0	915	0

Mass Emission is calculated from ideal gas law $n = PV/RT$
 Mass Emission = ppm x molecular weight x P x flow rate / R x T

V is measured flow rate in m³/min
 P is 101325 Pa (760 mm mercury)
 T is 293 K
 R is molar gas constant = 8.314 m³Pa / mol K
 Molecular weight for TQ/C7 mixture = 90

101325
 293
 8.314
 90
 2438.002

Emission Rate	0.04508	gm/min	Emission Rate	0.00027	mg/min	Emission Rate	0.00000	mg/min
Emission Rate MR	4.50804E-05	KG/MIN	Emission Rate MR	2.67232E-07	KG/MIN	Emission Rate MR	0.00	KG/MIN
Prebalanced Rate (PBR)	0.18	KG/MIN	Prebalanced Rate (PBR)	0.044	KG/MIN	Prebalanced Rate (PBR)	0.15	KG/MIN
MR/PBR	0.000250502		MR/PBR	0.07391E-06		MR/PBR	0	
1-MR/PBR	0.999749498		1-MR/PBR	0.999993926		1-MR/PBR	1	

St. Neots VOC Emissions Inventory for JANUARY- DECEMBER 2002

Input Data Sheet

Period for Calculation

Start Date: Jan-02

End Date: Dec-02

Solvent Receipts

	<u>Mtl.</u>	<u>Kg. Received</u>	<u>Excel Var.</u>
ST 1	PENTO	122,776	tank1
ST 2	SQUO	1,410,427	tank2
ST 3	SQUO	1,410,427	tank3
ST 4	ACET	48,320	tank4
ST 6	IPA	21,332	tank6
ST 7	SOX	3,025	tank7

Solvent Used in SLC Production

	<u>Mtl.</u>	<u>Kg. Used</u>	<u>Excel Var.</u>
ACET		48,470	acet
IPA		16,198	ipa
PENTO		131,994	pento
SOX		4,447	sox
SQUO		2,842,344	squo

Solvent Production

	<u>Kg. Produced</u>	<u>Excel Var.</u>
All SLC	5,332,766	slc

SLC Packaging

	<u>Kg. Produced</u>	<u>Excel Var.</u>
Bulk	809,180	bulk
IBCs	277,721	ibc
Drums	4,208,303	drum
All Other	37,562	other

Results of Annual VBS Monitoring

	<u>Monitored E%</u>	<u>Excel Var.</u>
Mixer solvent loading	100%	mixer_e
BT SF loading	100%	btsf_e
BT homogenization	100%	bthomo_e

August 12th 2002

Vent Monitorings

10.30 am Time secs	12.12-12.27 Reading ppm	12.47-13.02 Time secs	Reading ppm	12.00 am Time secs	Reading ppm
15	6	15	0	15	0
30	0	30	0	30	0
45	80.8	45	0	45	0
60	0	60	0	60	0
75	0	75	0	75	0
90	0	90	0	90	0
105	0	105	0	105	0
120	0	120	0	120	0
135	107.9	135	0	135	0
150	0	150	0	150	0
165	0	165	0	165	0
180	9.8	180	0	180	0
195	14.8	195	0	195	0
210	2.2	210	0	210	0
225	0	225	0	225	0
240	0	240	0	240	0
255	0	255	0	255	0
270	26.5	270	0	270	0
285	0.8	285	0	285	0
300	0	300	1.5	300	0
315	9.5	315	0	315	0
330	0	330	0	330	0
345	0	345	0	345	0
360	0	360	0	360	0
375	0	375	0	375	0
390	0	390	0	390	0
405	0	405	0	405	0
420	0	420	0	420	0
435	20.7	435	0	435	0
450	0	450	0	450	0
465	5.9	465	0	465	0
480	0	480	0	480	0
495	8.4	495	0	495	0
510	7.1	510	0	510	0
525	0	525	0	525	0
540	9.1	540	0	540	0
555	0	555	0	555	0
570	0	570	0	570	0
585	0	585	0	585	0
600	0	600	0	600	0
615	0	615	0	615	0
630	0	630	0	630	0
645	0	645	0	645	0
660	0	660	0	660	0
675	0	675	0	675	0
690	0	690	0	690	0
705	0	705	0	705	0
720	0	720	0	720	0
735	0	735	0	735	0
750	0	750	0	750	0
765	0.8	765	0	765	0
780	0	780	0	780	0
795	0	795	0	795	0
810	0	810	0	810	0
825	0	825	0	825	0
840	6.4	840	0	840	0
855	0	855	0	855	0
870	0	870	0	870	0
885	0	885	0	885	0
900	0	900	0	900	0
915	3.1	915	0	915	0
61	299.8	61	1.5	61	0.0

Mass Emission is calculated from Ideal gas law $n = PV/RT$
 Mass Emission = ppm x molecular weight x P x flow rate / R x T

V is measured flow rate in m3/min
 P is 101325 Pa (760 mm mercury)
 T is 293 K
 R is molar gas constant = 8.314 m3Pa /mol K
 Molecular weight for 70/30 C6/C7 mixture = 90
 R x T
 2438.002

Emission Rate	0.04509	gm/min	Emission Rate	0.00027	mg/min	Emission Rate	0.00000	mg/min
Emission Rate MR	4.50904E-05	KG/MIN	Emission Rate MR	2.67252E-07	KG/MIN	Emission Rate MR	0.00	KG/MIN
Prebalanced Rate (PBR)	0.16	KG/MIN	Prebalanced Rate (PBR)	0.044	KG/MIN	Prebalanced Rate (PBR)	0.15	KG/MIN
MR/PBR	0.000250502		MR/PBR	6.07361E-06		MR/PBR	0	
1-MR/PBR	0.999749498		1-MR/PBR	0.99993926		1-MR/PBR	1	

5AN0 022

EPA REPORT Channel: Banbury (Address 01) (revision 6.2e 07.03.2000)

Date: 13 Feb 2002

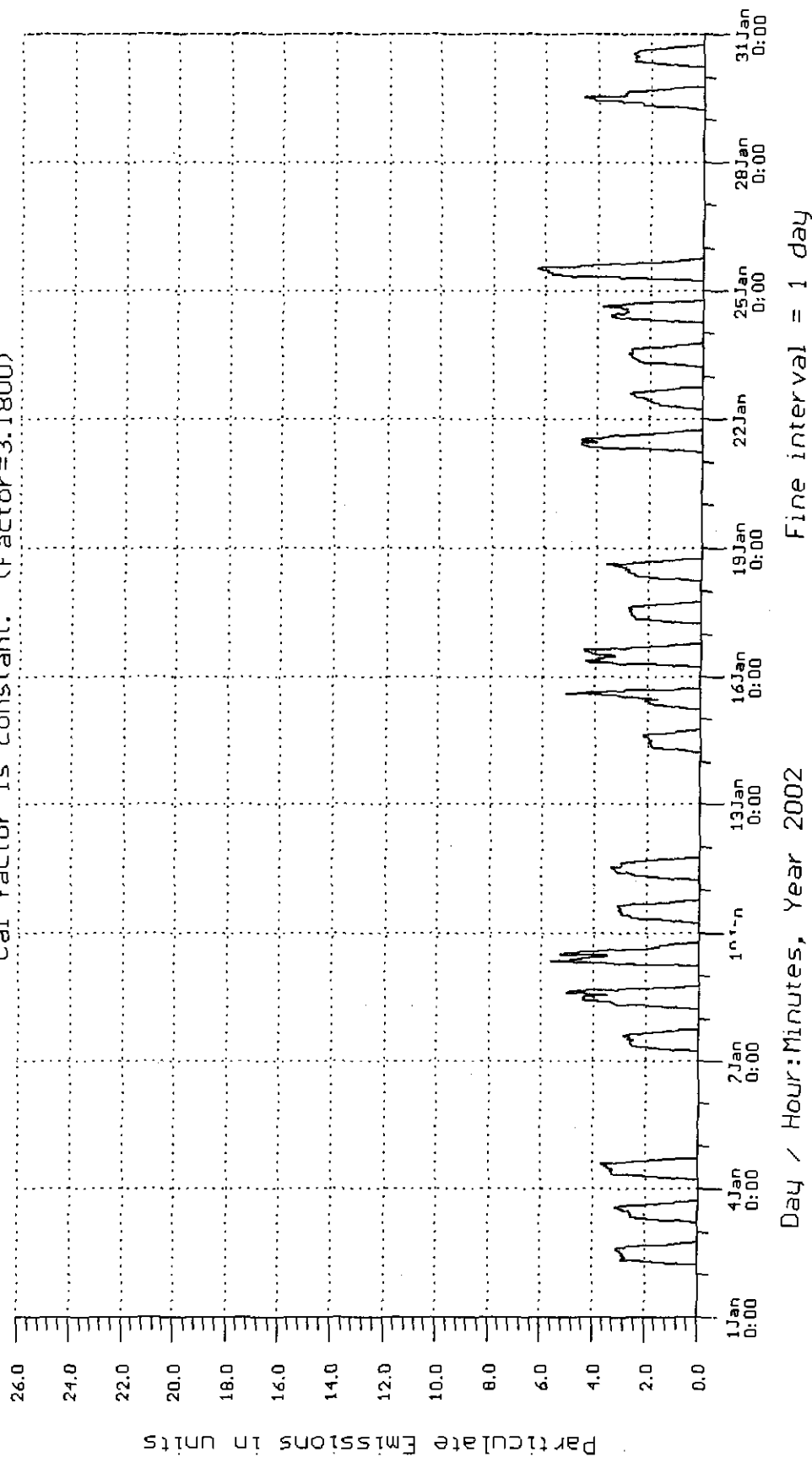
Company: DAREX UK LTD
CROMWELL ROAD,
CAMBS. PE192ER

Contact: MR. G. DRAPER
(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 2.03
Maximum time-weighted average emission level: 6.29

Cal factor is constant. (Factor=3.1800)



FEB 02

E P A R E P O R T Channel: Banbury (Address 01) (revision 6.2e 07.03.2000)

Date: 19 Mar 2002

Company: OAREX UK LTD
CROMWELL ROAD,
CAMBS. PE192ER

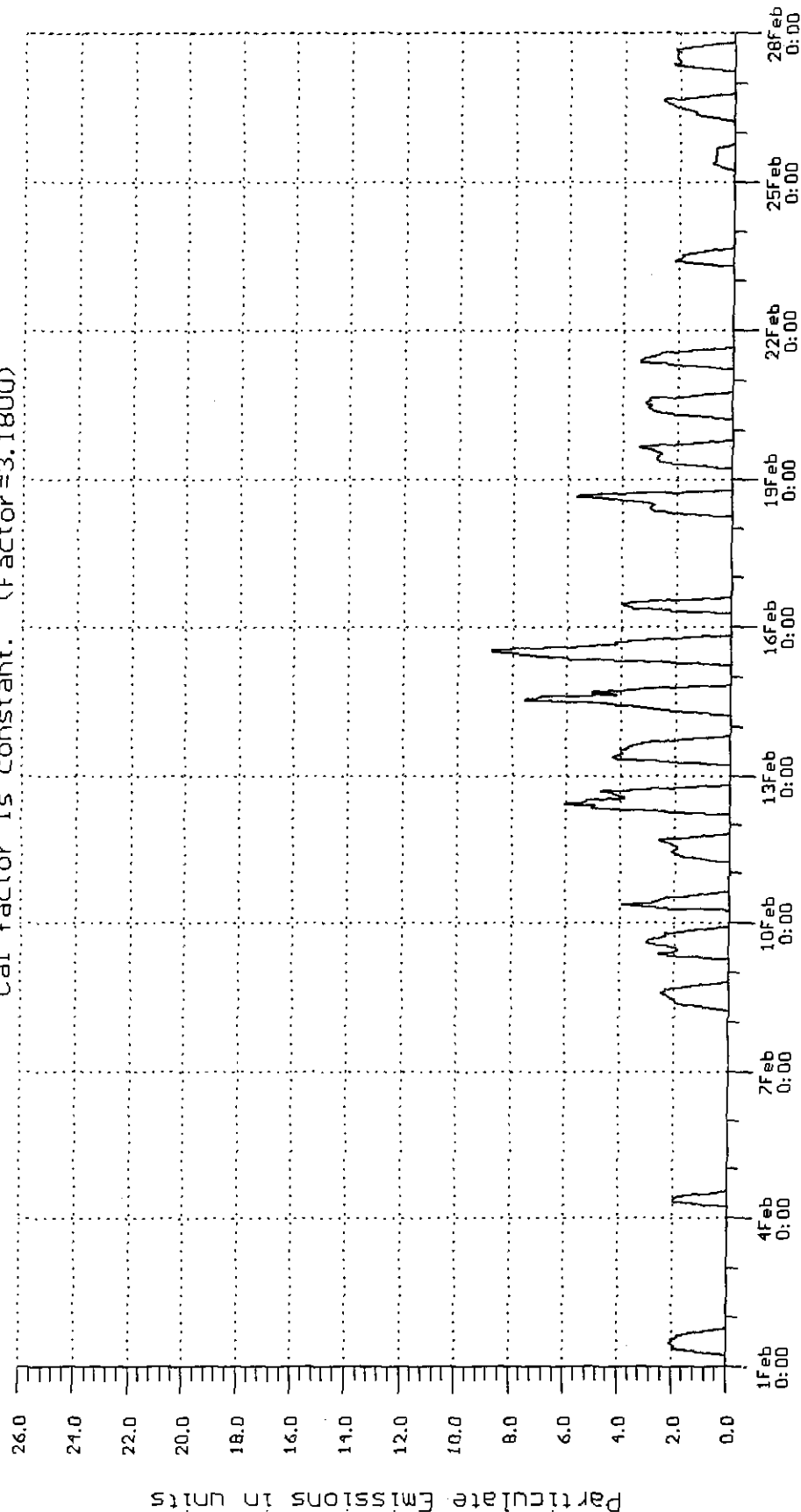
Contact: MR. G. DRAPER

(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 1.94
Maximum time-weighted average emission level: 8.77

Cal factor is constant. (Factor=3.1800)



Day / Hour:Minutes, Year 2002

Fine interval = 1 day

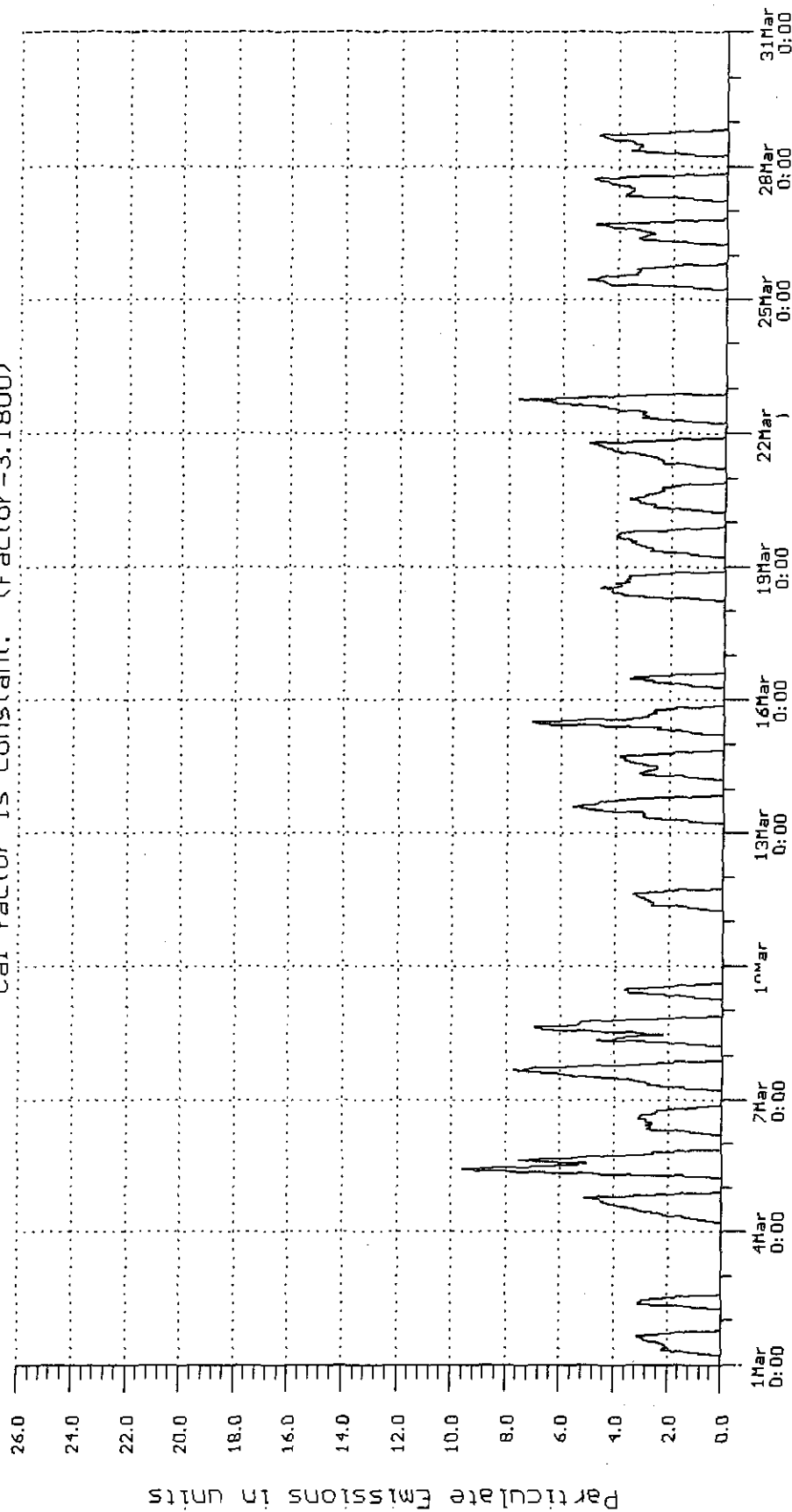
MAR 02

EPA REPORT Channel: Banbury (Address 01) (revision 6.2e 07.03.2000)

Date: 16 Apr 2002
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER
Contact: MR. G. DRAPER
(01480) 324459
EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 2.39
Maximum time-weighted average emission level: 9.60

Cal factor is constant. (Factor=3.1800)



APR 02

E P A R E P O R T Channel: Banbury (Address 01) (revision 6.2e 07.03.2000)

Date: 17 May 2002

Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER

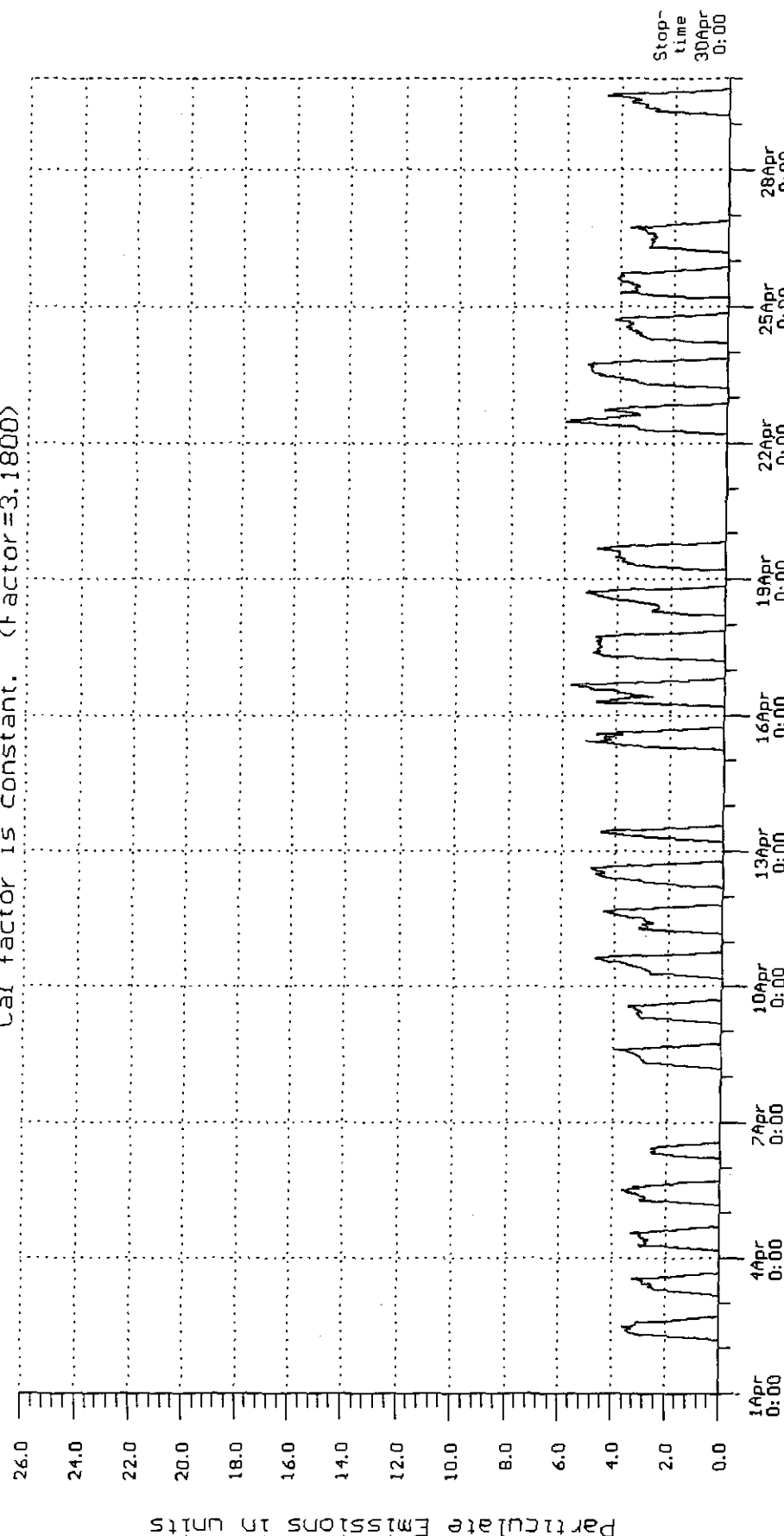
Contact: MR. G. DRAPER

(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 2.62
Maximum time-weighted average emission level: 5.95

Cal factor is constant. (Factor=3.1800)



Day / Hour:Minutes, Year 2002

Fine interval = 1 day

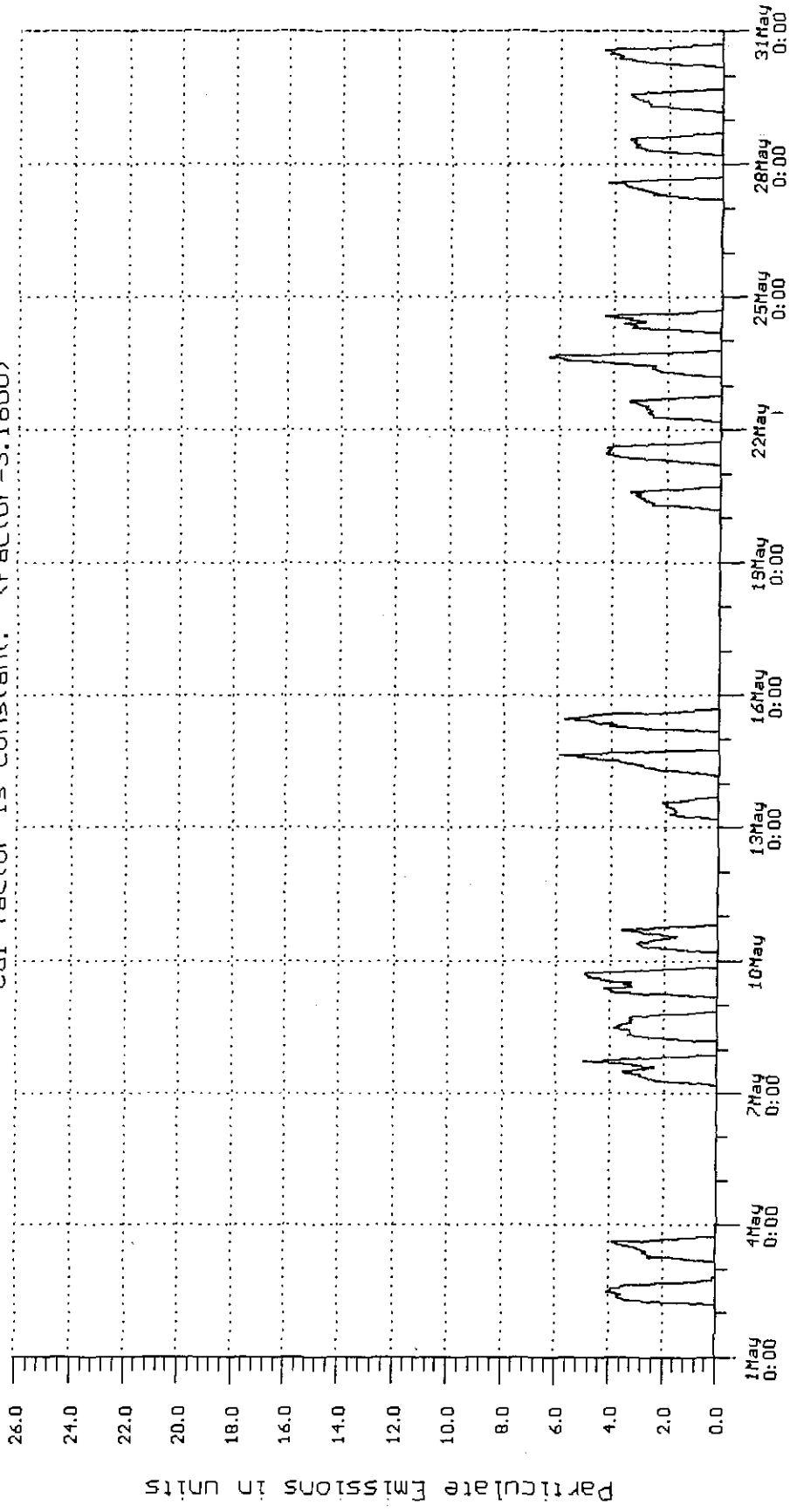
MAY 02

EPA REPORT Channel: Banbury (Address 01) (revision 6.2e 07.03.2000)

Date: 18 Jun 2002
Company: GAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER
Contact: MR. G. DRAPER
(01480) 324459
EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 2.10
Maximum time-weighted average emission level: 6.38

Cal factor is constant. (Factor=3.1800)



Day / Hour:Minutes, Year 2002 Fine interval = 1 day

502022

E P A R E P O R T Channel: Banbury (Address 01) (revision 6.2e 07.03.2000)

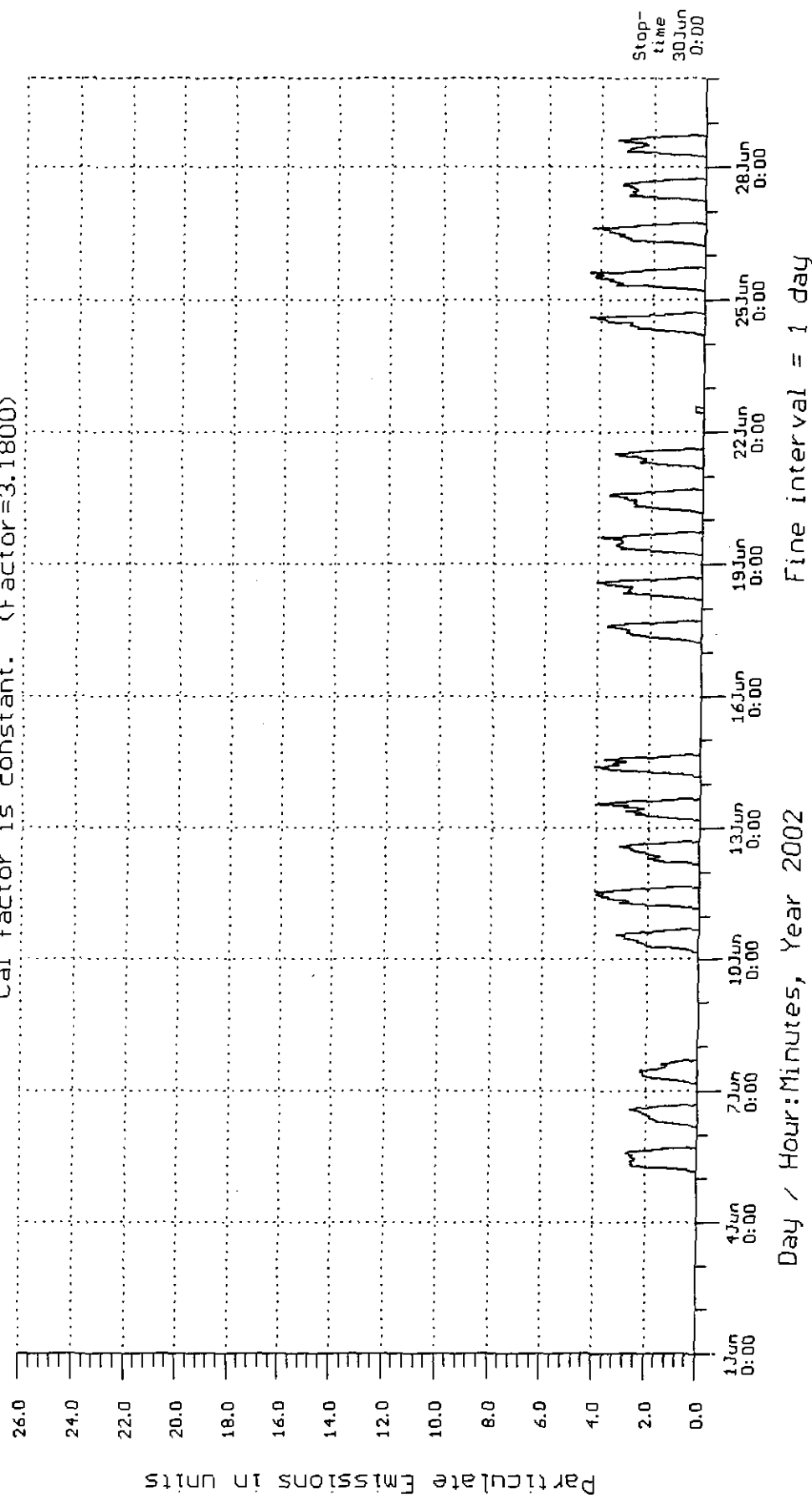
Date: 17 Jul 2002

Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER

Contact: MR. G. DRAPER
(01480) 324459
EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 1.60
Maximum time-weighted average emission level: 4.40

Cal factor is constant. (Factor=3.1800)



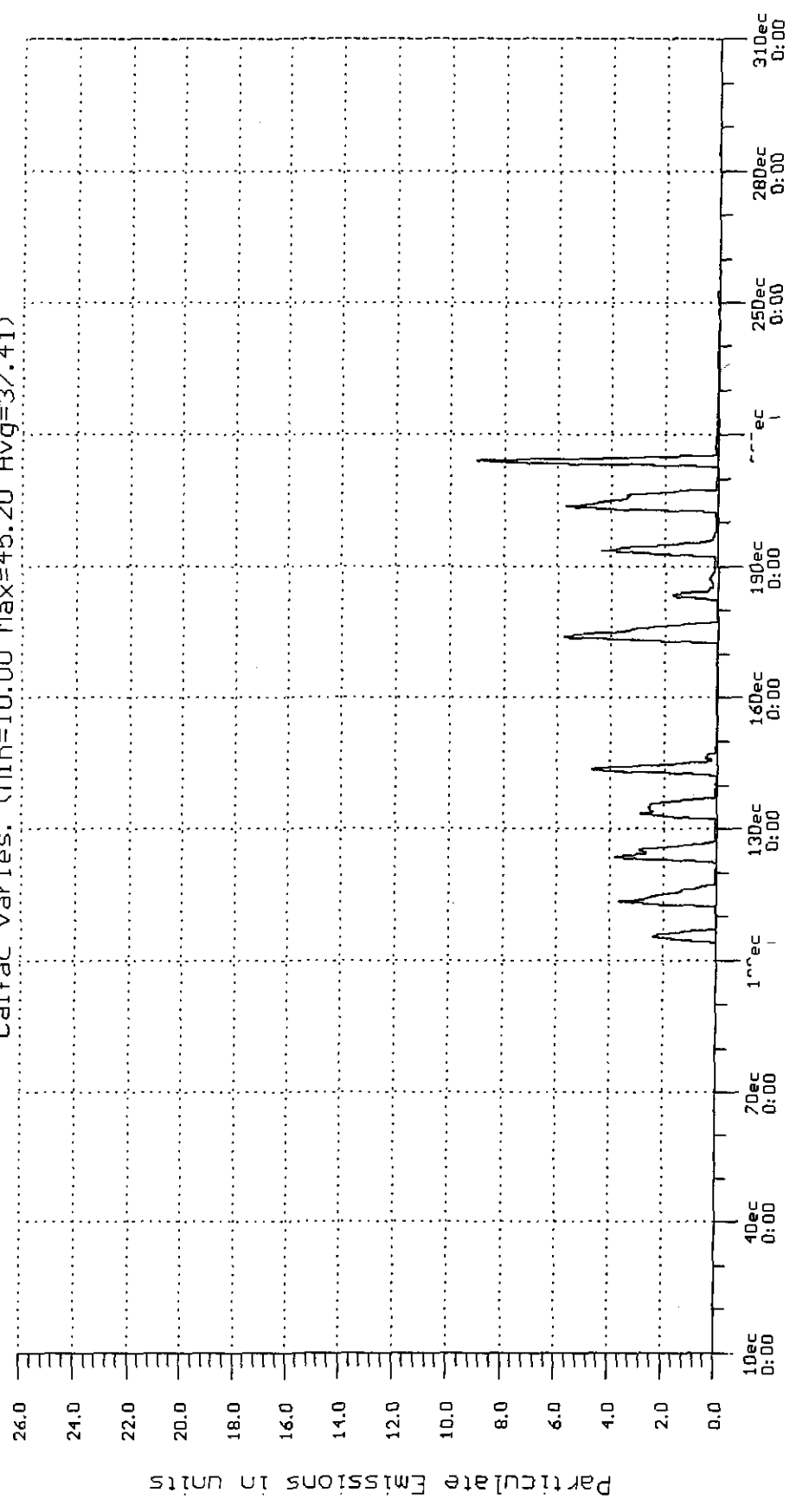
DEC 01

EPA REPORT Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 15 Jan 2002
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER
Contact: MR. G. DRAPER
(01480) 324459
EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 0.538
Maximum time-weighted average emission level: 9.00

Calfac varies. (Min=10.00 Max=45.20 Avg=37.41)



Day / Hour:Minutes, Year 2001 Fine interval = 1 day

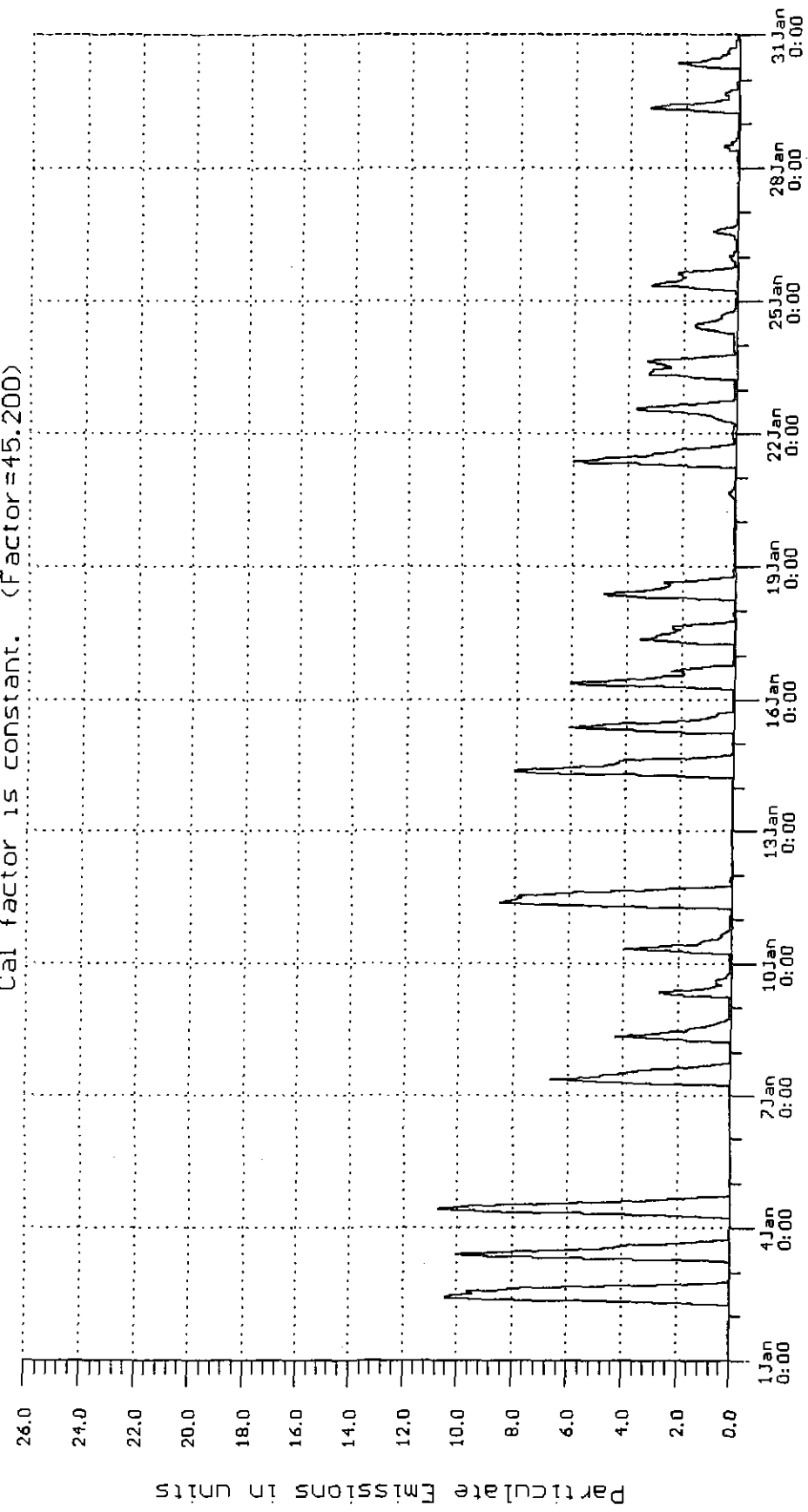
JAN 02

EPA REPORT Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 13 Feb 2002
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER
Contact: MR. G. DRAPER
(01480) 324459
EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 1.02
Maximum time-weighted average emission level: 10.68

Cal factor is constant. (Factor=45.200)



Day / Hour:Minutes, Year 2002 Fine interval = 1 day

FEB 02

E P A R E P O R T Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 19 Mar 2002

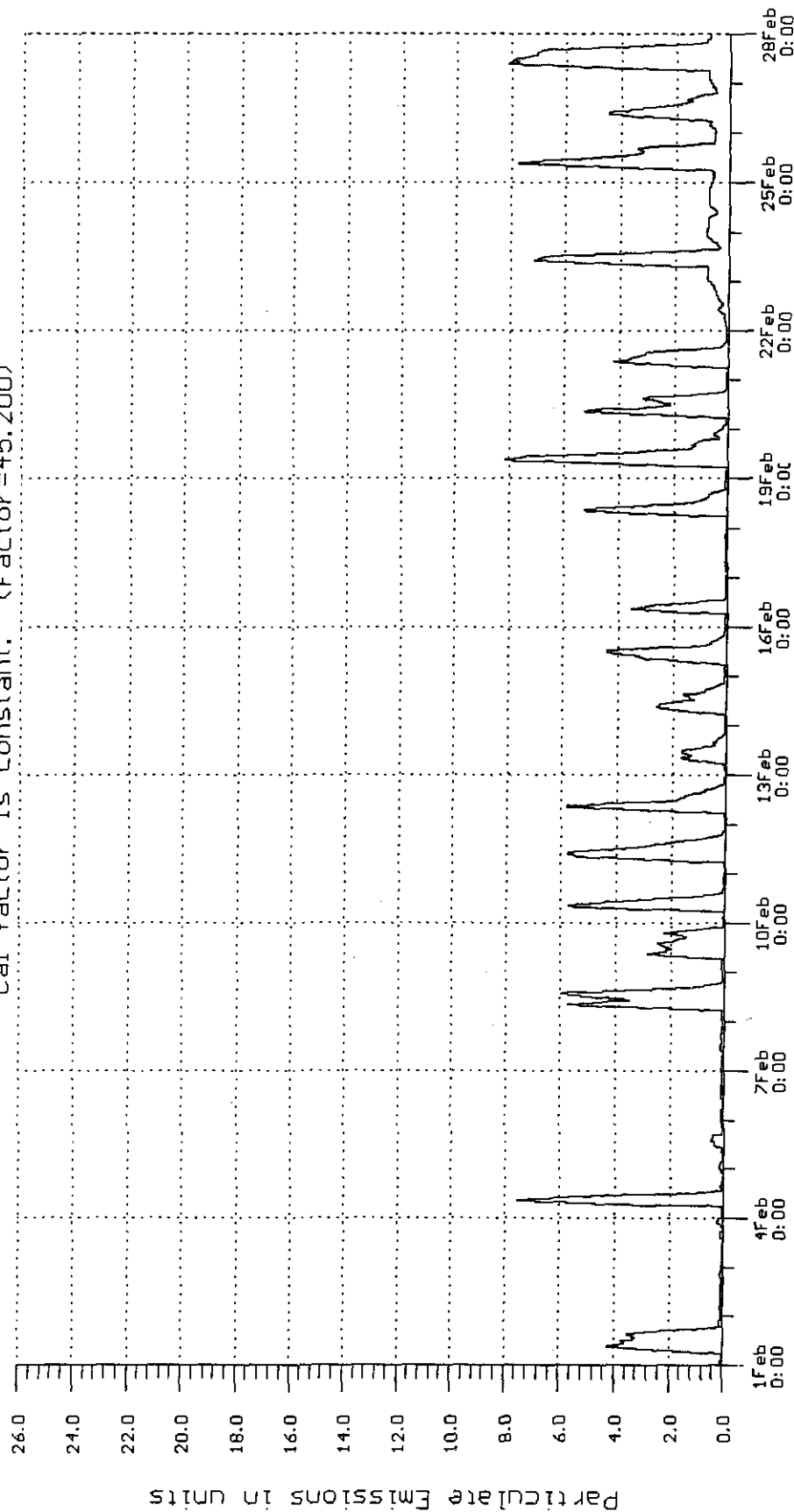
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER

Contact: MR. G. DRAPER
(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 1.15
Maximum time-weighted average emission level: 8.09

Cal factor is constant. (Factor=45.200)



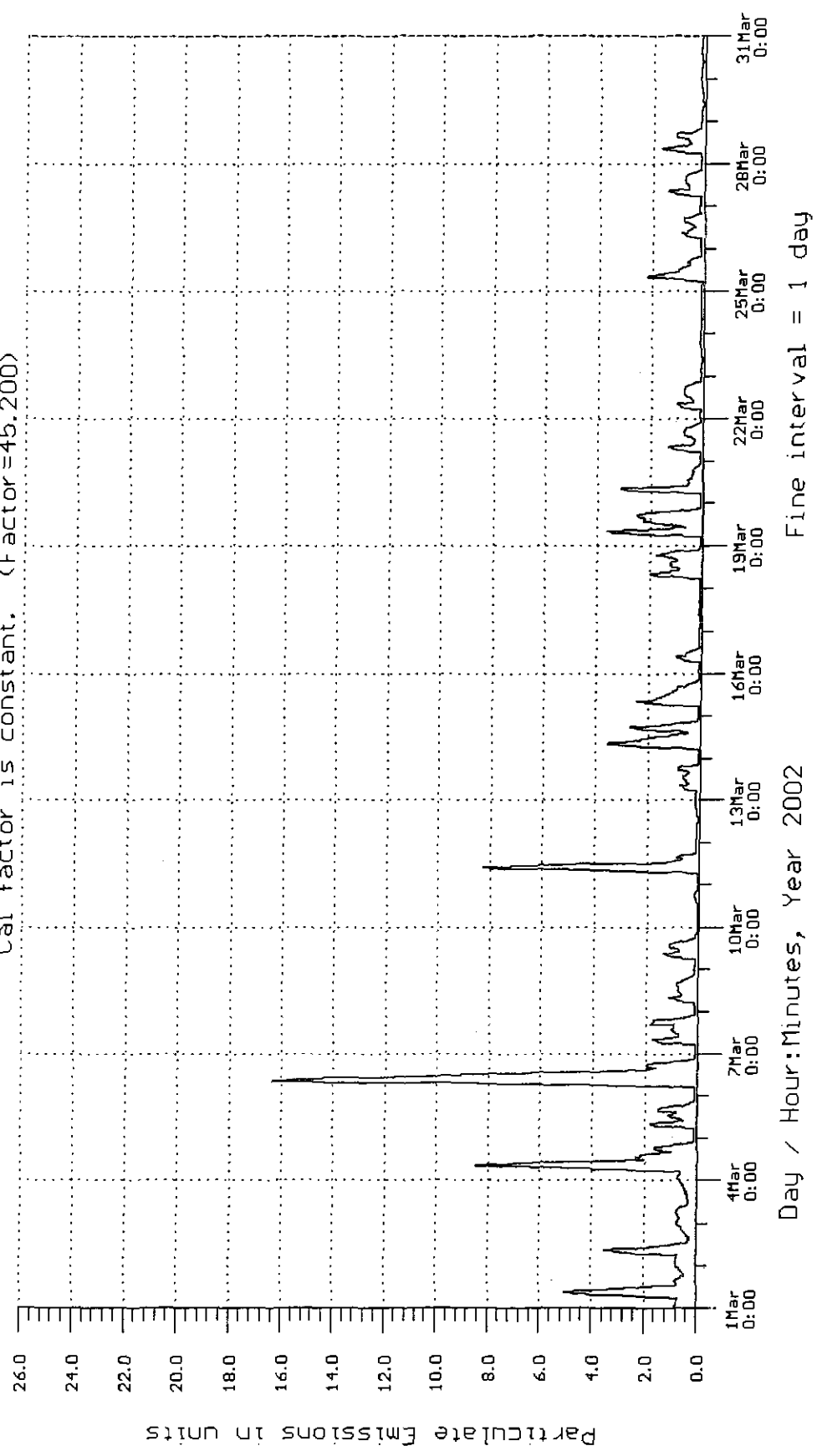
MAR 02

EPA REPORT Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 16 Apr 2002
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER
Contact: MR. G. DRAPER
(01480) 324459
EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 0.751
Maximum time-weighted average emission level: 16.35

Cal factor is constant, (Factor=45.200)



APR 02

E P A R E P O R T Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 17 May 2002

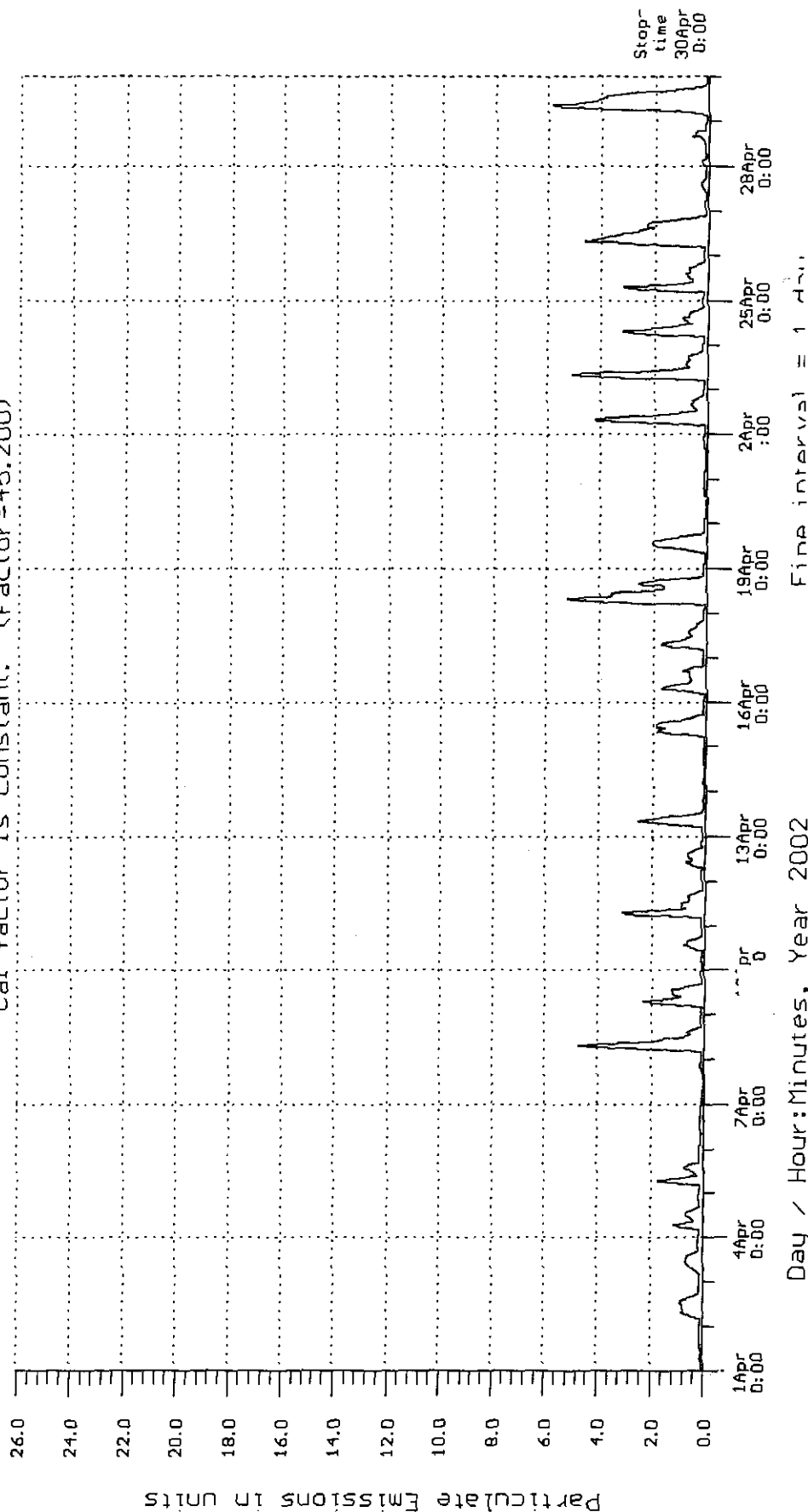
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER

Contact: MR. G. DRAPER
(01480) 324459

EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 0.602
Maximum time-weighted average emission level: 5.79

Cal factor is constant. (Factor=45.200)



MAY 02

E P A R E P O R T Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 18 Jun 2002

Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER

Contact: MR. G. DRAPER

(01480) 324459

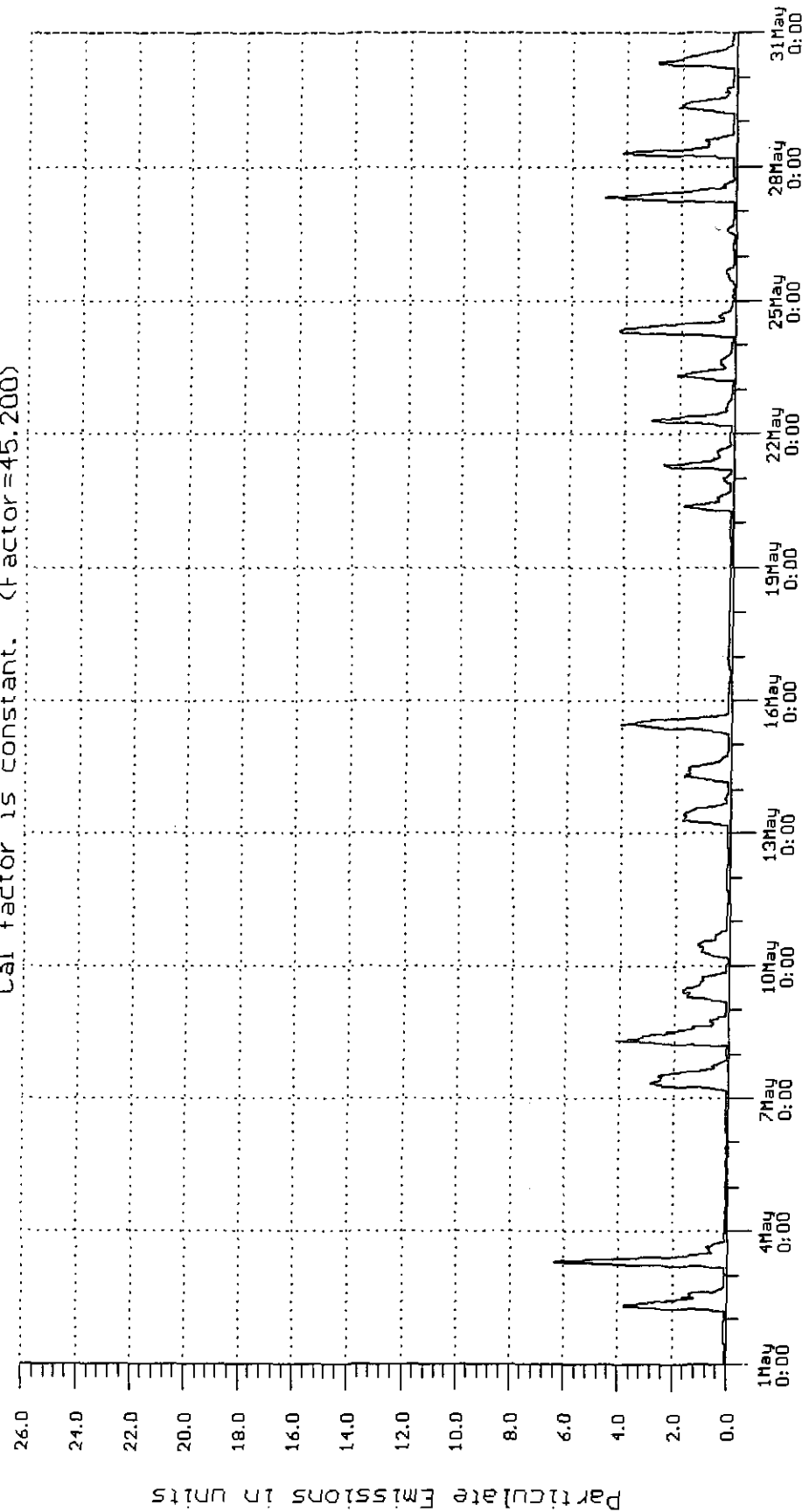
EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours

Average emission level: 0.533

Maximum time-weighted average emission level: 6.35

Cal factor is constant. (Factor=45.200)



50202

EPA REPORT Channel: Conveyor (Address 02) (revision 6.2e 07.03.2000)

Date: 17 Jul 2002
Company: DAREX UK LTD
CROMWELL ROAD, ST. NEOTS.
CAMBS. PE192ER
Contact: MR. G. DRAPER
(01480) 324459
EPA authorisation number(s):

Requested Data averaging time period: 3.00 hours
Average emission level: 0.327
Maximum time-weighted average emission level: 5.09

Cal factor is constant. (Factor=45.200)

