

Appendix 1

Detailed Monitoring Data

CONTENTS

- A1.1 Monthly average NO₂ diffusion tube concentrations (2005)
- A1.2 Automatic Monitoring Site Details
- A1.3 Automatic Monitoring Data: King's Lynn Railway Road (2005) – NO₂ and PM₁₀
- A1.4 Automatic Monitoring Data: King's Lynn South Quay (2005) – PM₁₀
- A1.5 Sulphur dioxide filter-pack concentrations, Stoke Ferry (2005)

A1.1 Monthly Average NO₂ Concentrations (2005)

ID	Site Type	Site Name and Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ave
1	Kerbside	Railway Road 1	44	51	50	44	33	38	50	43	45	61	52	55	47
2	Roadside	Railway Road 4	New site for 2006												
3	Roadside	Railway Road 5	New site for 2006												
4	Kerbside	Railway Road 6	New site for 2006												
***		Railway Road West	58	58	62	54	44	55	51	50	48	52	52	52	53
***		Sainsbury's	60	64	47	40	32	33	33	32	34	38	41	41	41
***	Bus station	Bus Station	37	59	49	41	37	46	42	36	38	38	45	41	42
5	Bus station	Bus Station 1	New site for 2006												
6	Bus station	Bus Station 2	New site for 2006												
7,8,9	Co-located	Railway Rd Monitoring Station	35	40	41	39	30	31	25	24	31	35	41	37	34
10	Roadside	Mill Fleet 1	New site for 2006												
11	Roadside	Mill Fleet 2	New site for 2006												
12	Roadside	London Road 1	47	47	49	43	32	45	40	34	38	45	49	46	43
13	Roadside	London Road 2	29	40	41	36	31	40	35	34	37	42	38	36	37
14	Roadside	London Road 3	40	45	46	37	33	41	32	36	34	38	39	43	39
15	Roadside	London Road 4	47	55	46	43	38	36	33	31	34	38	46	52	42
16	Roadside	London Road 5	40	45	48	42	37	41	-	36	35	38	50	46	42
17	Kerbside	Southgates	38	47	54	44	37	46	45	38	39	45	47	50	44
18	Roadside	Wisbech Road KL	New site for 2006												
19	Roadside	Nora 1	New site for 2006												
20	Roadside	Hardwick Road	32	33	40	32	21	30	25	25	31	33	-	36	31
21	Roadside	Vancouver Avenue 1	30	35	32	33	24	28	26	24	26	28	32	30	29
***		Vancouver Avenue	30	33	34	28	21	27	23	23	28	29	34	33	29
22	Roadside	London Road 9	New site for 2006												
23	Kerbside	London Road 10	New site for 2006												
24	Roadside	London Road 6	39	52	52	47	33	43	34	33	41	48	45	42	42
25	Roadside	London Road 7	38	56	44	46	39	44	38	33	36	40	43	44	42
26	Roadside	London Road 8	34	45	44	42	35	42	40	35	35	39	35	36	39

ID	Site Type	Site Name and Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ave
27-29	Roadside	The Walks (Framingham Hospital)	24	28	28	21	17	16	14	19	18	22	28	29	22
30	Roadside	Railway Road 7	New site for 2006												
31	Roadside	St John's Terrace	35	44	40	29	27	26	33	34	27	29	29	36	32
32	Roadside	St John's Terrace/Blackfriars	41	37	41	34	31	37	35	38	36	41	45	41	38
33	Kerbside	Waterloo Street	34	37	39	31	22	25	23	23	26	28	35	25	29
34	Kerbside	Portland Street	31	41	36	25	23	22	22	22	26	29	33	31	28
35	Kerbside	Railway Road 2	36	51	45	45	31	42	40	35	39	-	40	42	41
36	Roadside	Railway Road 3	36	49	44	43	29	37	34	32	34	44	42	37	38
37	Kerbside	Wellsley Street	37	39	47	37	31	42	35	33	37	39	41	41	38
38	Roadside	Blackfriars 2	72	46	48	44	17	34	30	32	34	39	51	42	41
39	Roadside	Blackfriars 1	37	47	44	42	33	36	32	36	31	36	33	41	37
40	Roadside	Norfolk Street	23	42	43	39	34	37	33	32	33	34	41	44	36
41	Roadside	Blackfriars 3	New site for 2006												
42	Roadside	Littleport Street	33	42	42	42	31	37	32	31	35	41	38	41	37
43	Roadside	Gaywood Road 2	35	36	36	36	24	31	26	26	30	38	35	35	32
44	Roadside	The Swan, Gayton Road	40	42	42	48	28	36	36	28	42	36	39	40	38
45	Kerbside	Wootton Road 2	New site for 2006												
46	Roadside	Wootton Road 1	34	42	45	39	34	39	36	33	35	35	43	41	38
47	Roadside	Lynn Road 1	New site for 2006												
48	Roadside	Lynn Road 2	New site for 2006												
49	Roadside	Gaywood Road 3	36	44	43	33	27	29	33	30	35	34	35	37	35
50	Roadside	Gaywood Road 1	33	43	39	34	27	27	29	28	31	27	36	37	33
51	Roadside	Austin Street 1	36	48	55	54	33	44	42	33	39	45	48	45	44
52	Roadside	Austin Street 2	New site for 2006												
53	Roadside	Edward Benefer Way	40	49	38	42	29	27	25	28	29	37	39	42	35
54-56	Roadside	Kilham's Way	14	21	21	16	-	10	9	10	15	17	22	22	16
57	Roadside	Low Road, South Wootton	28	30	31	25	19	23	18	21	24	27	31	32	26
58	Roadside	Castle Rising Road, South Wootton	26	31	32	-	18	21	16	16	21	27	31	30	24
***		Saddlebow Road 2	38	50	50	45	36	31	25	23	33	34	41	37	37
***		Saddlebow Road 3	25	32	33	24	16	16	9	14	20	19	25	27	22

ID	Site Type	Site Name and Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ave
***		Saddlebow Road 1	29	33	34	29	21	18	15	16	20	23	29	29	25
59	Roadside	Tennyson Ave 1	28	32	29	22	19	18	18	20	24	25	31	31	25
60	Roadside	Tennyson Ave 2	22	36	34	30	25	26	22	22	18	30	33	33	28
61	Roadside	Wisbech Road 1	30	38	33	27	20	22	21	20	22	21	32	38	27
62	Roadside	Wisbech Rd Elm 1 (Elm High Rd)	29	-	35	25	23	29	28	27	25	31	28	32	28
63	Roadside	Wisbech Rd Elm 3 (Elm High Rd)	New site for 2006												
64	Roadside	Wisbech Rd Elm 4 (Elm High Rd)	New site for 2006												
65	Roadside	Wisbech Rd Elm 5 (Elm High Rd)	New site for 2006												
66	Roadside	Wisbech Rd Elm 6 (Elm High Rd)	New site for 2006												
67	Roadside	Wisbech Rd Elm 2 (Elm High Rd)	31	44	36	31	29	29	29	30	25	29	41	38	33
68	Roadside	London Road Downham Market	New site for 2006												
69	Roadside	Railway Road Downham Market	28	36	33	28	20	20	21	20	24	29	32	30	27
70	Roadside	Bridge Street Downham Market	33	41	37	-	21	26	26	23	26	28	39	37	31
71	Roadside	Lynn Road Downham	34	45	37	34	27	27	28	20	34	33	40	35	33
72	Roadside	Bexwell Road Downham Market	29	43	40	40	28	37	31	28	34	33	41	34	35
73	Roadside	Buckenham Drive Stoke Ferry	17	28	24	-	12	14	14	13	18	19	24	25	19
74	Post (Roadside)	High Street Stoke Ferry	18	29	29	23	16	18	19	20	20	21	29	-	22
75	Post (Roadside)	Furlong Road Stoke Ferry	24	29	26	22	-	-	13	15	19	23	29	28	23
76	Post (Roadside)	West Winch 1	New site for 2006												
77	Roadside	West Winch 2	New site for 2006												
***		Post Cottage Main Road, Fincham	22	33	29	-	19	19	19	20	22	28	-	-	23
***		The Cottage Main Road Fincham	18	30	27	23	18	18	18	19	24	27	28	30	23
***		Hunstanton 1	16	-	19	16	-	12	13	14	19	22	28	33	19
***		Hunstanton 2	19	-	22	22	12	17	17	16	20	19	24	28	20
78	Blank	BLANK	New site for 2006												

Notes:

1. Site ID is correct for current (2006) tubes. 2005 tubes were numbered differently. Those sites operational in 2005 that have since closed are included here but with no site ID
2. All concentrations are $\mu\text{g m}^{-3}$ expressed as NO_2
3. Raw data – has not been bias adjusted

A1.2 Automatic Monitoring Site Details

Site	Site Type	Analyser	Pollutants
Railway Road	Roadside	Ambirak	NO ₂ and PM ₁₀
South Quay	Urban Background	R&P TEOM	PM ₁₀

A1.3 Air Pollution Report for King's Lynn Railway Road

Produced by netcen on behalf of King's Lynn & West Norfolk BC

KING'S LYNN RAILWAY ROAD 01 January to 31 December 2005

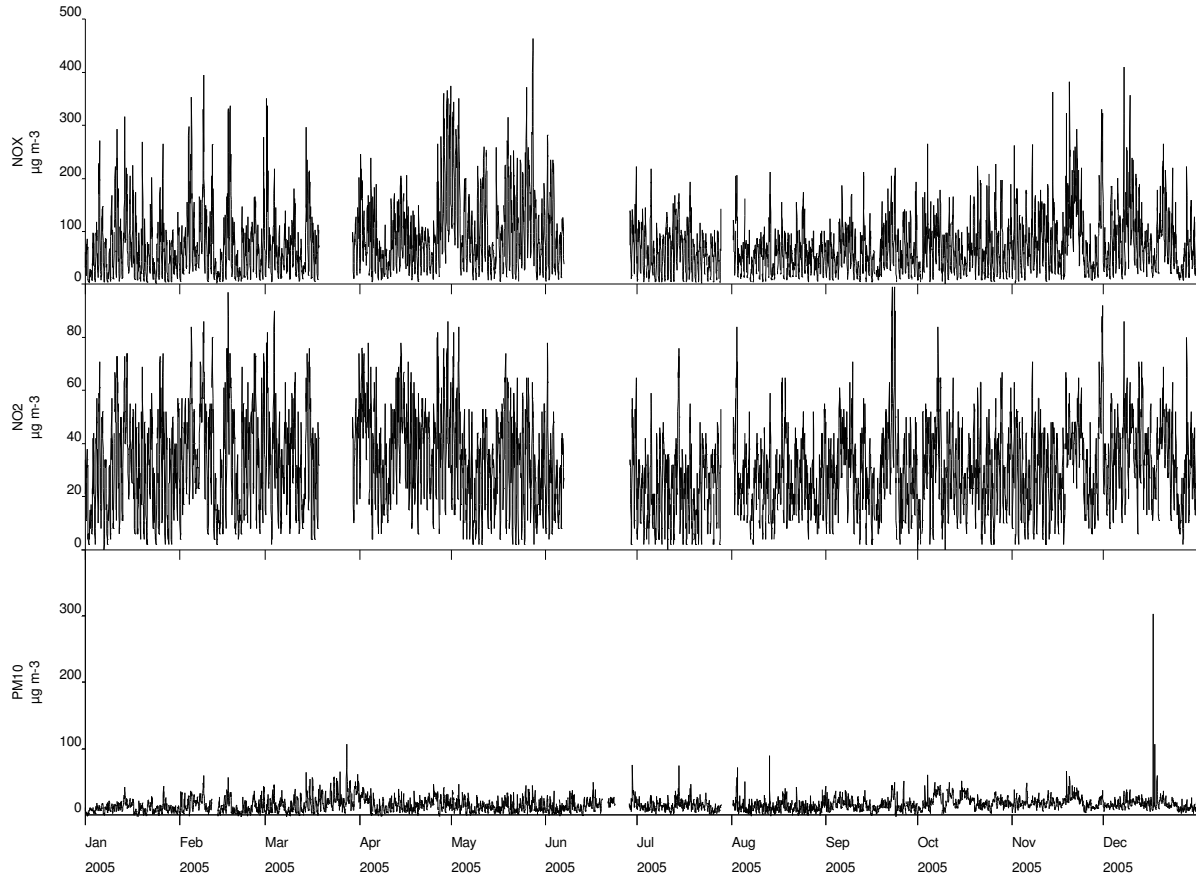
These data have been fully ratified by netcen

POLLUTANT	NO _x	NO ₂	PM ₁₀ +
Number Very High	-	0	0
Number High	-	0	0
Number Moderate	-	0	0
Number Low	-	7787	8414
Maximum 15-minute mean	541 µg m ⁻³	117 µg m ⁻³	485 µg m ⁻³
Maximum hourly mean	464 µg m ⁻³	99 µg m ⁻³	303 µg m ⁻³
Maximum running 8-hour mean	376 µg m ⁻³	88 µg m ⁻³	73 µg m ⁻³
Maximum running 24-hour mean	230 µg m ⁻³	66 µg m ⁻³	42 µg m ⁻³
Maximum daily mean	220 µg m ⁻³	66 µg m ⁻³	35 µg m ⁻³
Average	77 µg m ⁻³	31 µg m ⁻³	15 µg m ⁻³
Data capture	88.9 %	88.9 %	95.7 %

+ PM₁₀ instrument is a TEOM
All mass units are at 20°C and 1013mb
NO_x mass units are NO_x as NO₂

Pollutant	Air Quality (England) Regulations 2000 and (Amendment) Regulations 2002	Exceedences	Days
Nitrogen Dioxide	Annual mean > 40 µg m ⁻³	0	-
Nitrogen Dioxide	Hourly mean > 200 µg m ⁻³	0	0
PM ₁₀ Particulate Matter (Gravimetric)	Daily mean > 50 µg m ⁻³	0	0
PM ₁₀ Particulate Matter (Gravimetric)	Annual mean > 40 µg m ⁻³	0	-

King's Lynn Railway Road Air Monitoring Hourly Mean Data for 01 January to 31 December 2005



A1.4 Air Pollution Report for King's Lynn South Quay

Produced by netcen on behalf of King's Lynn & West Norfolk BC

**KING'S LYNN SOUTH QUAY
01 January to 31 December 2005**

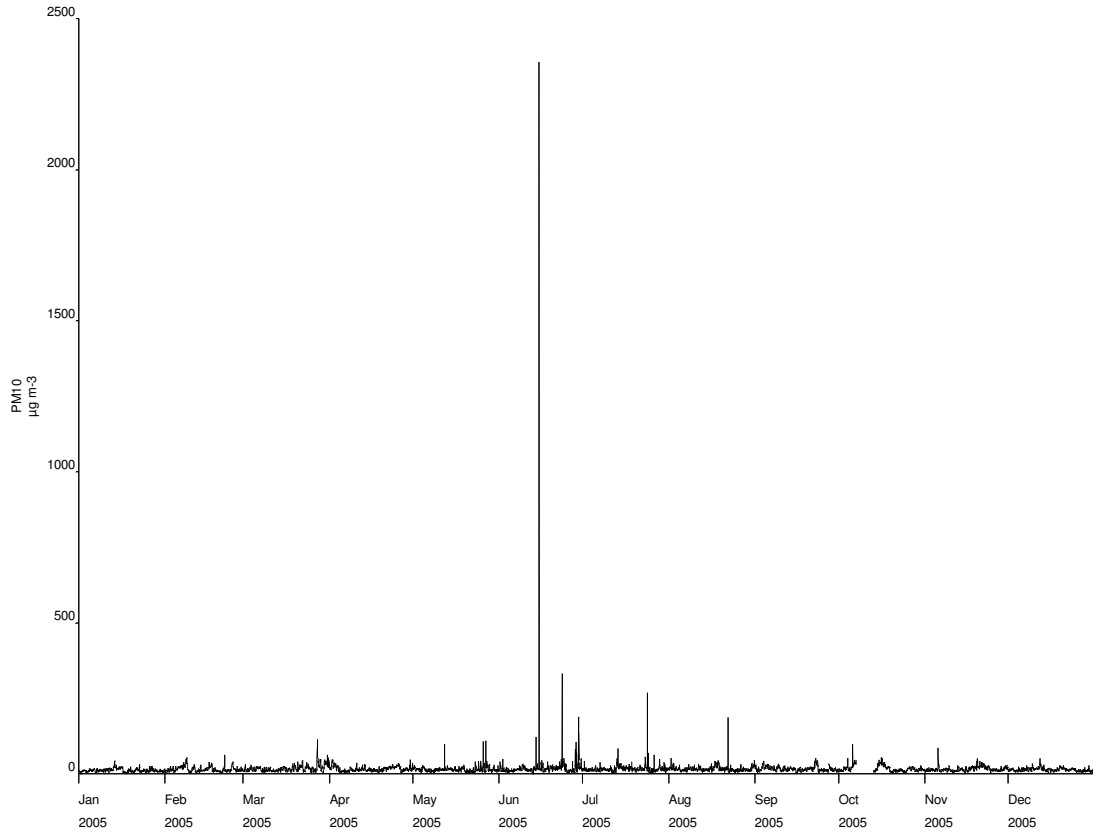
These data have been fully ratified by netcen

POLLUTANT	PM ₁₀ +
Number Very High	24
Number High	0
Number Moderate	0
Number Low	8575
Maximum 15-minute mean	4383 µg m ⁻³
Maximum hourly mean	2356 µg m ⁻³
Maximum running 8-hour mean	354 µg m ⁻³
Maximum running 24-hour mean	130 µg m ⁻³
Maximum daily mean	128 µg m ⁻³
Average	15 µg m ⁻³
Data capture	97.9 %

+ PM₁₀ instrument is a TEOM
All mass units are at 20°C and 1013mb
NO_x mass units are NO_x as NO₂

Pollutant	Air Quality (England) Regulations 2000 and (Amendment) Regulations 2002	Exceedences	Days
PM ₁₀ Particulate Matter (Gravimetric)	Daily mean > 50 µg m ⁻³	2	2
PM ₁₀ Particulate Matter (Gravimetric)	Annual mean > 40 µg m ⁻³	0	-

King's Lynn South Quay Air Monitoring Hourly Mean Data for 01 January to 31 December 2005



A1.5 Sulphur dioxide filter-pack concentrations, Stoke Ferry (2005)

Start Date	End Date	Duration (days)	Concentration $\mu\text{g SO}_2 \text{ as S m}^{-3}$	Concentration $\mu\text{g SO}_2 \text{ m}^{-3}$
21-Dec-2004	- 25-Jan-2005	35	0.69	1.39
25-Jan-2005	- 22-Feb-2005	28	0.94	1.87
22-Feb-2005	- 18-Mar-2005	24	0.70	1.40
18-Mar-2005	- 19-Apr-2005	32	0.89	1.79
19-Apr-2005	- 17-May-2005	28	0.66	1.31
17-May-2005	- 14-Jun-2005	28	0.52	1.04
14-Jun-2005	- 12-Jul-2005	28	1.09	2.17
12-Jul-2005	- 09-Aug-2005	28	0.49	0.97
09-Aug-2005	- 06-Sep-2005	28	0.59	1.17
06-Sep-2005	- 04-Oct-2005	28	0.43	0.87
04-Oct-2005	- 01-Nov-2005	28	0.49	0.99
01-Nov-2005	- 30-Nov-2005	29	0.52	1.04
30-Nov-2005	- 05-Jan-2006	36	0.84	1.68
Annual Mean				
1-Jan-2005 to 31-Dec-2005		365	0.68	1.36

Data verified and reported by **netcen**, 2006