

Subject	Environment
Description	Sampling of water quality specifications (particularly for PM10)
Publisher	London Air Quality Network
Contributor	London Air Quality Network
Date	April 2009 - March 2010, monthly
Type	Sampling data
Format	Excel spreadsheet
Identifier	En05
Source	London Air Quality Network
Language	English
Relation	King's College London
Coverage	Sampling sites near the Olympic Park
Rights	London Air Quality Network

Monthly and Period of measured PM10 (μm^3 - AQO: 40 μm^3 as annual mean)										
	Gainsborough	Soil wash*	Carpenters Road*	Marshgate Lane	Bridgewater Road	Metronet (CZ6a/c)	Greenway	Omega Works	Kesslers	O. Village
Apr-09	34.2	59.8	44.4	75.5	30.2	47	22.9	22.8	-	No data
May-09	36.1	41.2	33.9	38.7	56.3	34.2	16.6	22.3	-	No data
Jun-09	17.8	49.2	34	32.6	48.5	33.5	32.1	20.6	-	No data
Jul-09	14.6	31.2	25.8	26.1	34.2	41.6	22	17	-	No data
Aug-09	15.9	43.1	29.7	31.3	33.1	28.7	27.6	19.5	-	No data
Sep-09	19.2	-	42.9	37.1	48.5	39	24	28.7	33.6	No data
Oct-09	21	-	39.3	29.5	46.6	46	22.6	29.3	31.2	No data
Nov-09	16	-	32.3	23.1	35.9	45	18.5	24	26.9	No data
Dec-09	15.2	-	29.1	22.2	26.4	36.9	13.9	19.6	21.7	No data
Jan-10	13.8	-	30.4	23.1	29	29.2	15.5	18.4	22.9	No data
Feb-10	16.9	-	-	23.6	22.2	20.9	15.5	15.4	21.6	29.9
Mar-10	26.7	-	-	23.5	17.1	19.1	19.7	17.1	24.5	36.9
Period Mean	20.6	44.9	34.2	32.2	35.7	35.1	20.9	21.4	26.1	33.4

* Monitor decommissioned
 (Quaternile also decommissioned end Mar 09)

Monitor moved to more representative location - previously effected by trains

Number of Exceedances of the 24-hour PM10 air quality objective (AQO: 35 exceed./year of 50 μm^3 measured as daily mean)										
	Gainsborough	Soil wash*	Carpenters Road*	Marshgate Lane	Bridgewater Road	Metronet (CZ6a/c)	Greenway	Omega Works	Kesslers	O. Village
Apr-09	4	16	5	16	2	5	1	0	-	No Data
May-09	4	7	3	3	13	0	0	0	-	No Data
Jun-09	0	12	4	1	7	1	4	0	-	No Data
Jul-09	0	3	0	0	0	3	1	0	-	No Data
Aug-09	0	7	3	0	1	3	3	0	-	No Data
Sep-09	0	-	8	4	5	6	0	2	1	No Data
Oct-09	0	-	5	1	7	11	0	1	1	No Data
Nov-09	0	-	0	0	3	11	0	0	1	No Data
Dec-09	0	-	1	1	1	6	0	0	1	No Data
Jan-10	0	-	1	0	2	2	0	0	0	No Data
Feb-10	0	-	-	0	0	0	0	0	0	0
Mar-10	0	-	-	0	0	1	0	0	1	4
Period Exceedenc	8	45	30	26	41	49	9	3	5	4

NOTES:

Soilwash monitor at onsite location so not comparable to AQOs. Omega Works replaced this - so would consider omitting this data altogether.

Metronet monitor effected by trains - since move at end Jan 2010, much lower values - even though now located on site. Would consider omitting data up until re-location.

Olympic Village data only provided since end Jan 2010.

Omega Works and Gainsborough are located at sensitive receptor locations and so are directly comparable to AQOs.

All data is collected by Osiris monitors which are not directly comparable to European reference monitoring methods, and have an inherent uncertainty.

London Air Quality Network

AQO: PM10, 40 $\mu\text{g}/\text{m}^3$ as annual mean

AQO: PM10, 50 $\mu\text{g}/\text{m}^3$ not be exceeded more than 35 times a year - measured as 24 hour mean

	2003	2004	2005	2006	2007	2008
Newham - Cam Road						
annual mean	35	29	31	30	30	28
No. days 24hr mean >50 $\mu\text{g}/\text{m}^3$	49	22	35	26	38	19
Waltham Forest - Leyton						
annual mean						
No. days 24hr mean >50 $\mu\text{g}/\text{m}^3$						
Newham - Wren Close						
annual mean			24	24	25	
No. days 24hr mean >50 $\mu\text{g}/\text{m}^3$			19	13	19	
Tower Hamlets - Blackwall						
annual mean					35	36
No. days 24hr mean >50 $\mu\text{g}/\text{m}^3$					61	60

2009	2010	2011	2012 (to 19 Dec)
27			27
10			11
	25		
	11		
	22		20
	3		3
34		28	27
43		32	26