

# London Borough of Croydon Air Quality Action Plan & Review and Assessment Progress Report 2007

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## **Executive Summary**

Local authorities in whose areas air quality objectives are unlikely to be met are required to declare an air quality management area (AQMA). Croydon has met and will continue to meet statutory air quality objectives for all but one pollutant: nitrogen dioxide. This pollutant mainly comes from road transport, but also from domestic and commercial gas boilers and some industrial installations. For each AQMA the Council must prepare an air quality action plan of measures aimed at meeting those objectives, and publish an annual progress report, stating what measures have been taken during the course of the past year, to improve air quality. The authority must also produce an annual review and assessment progress report. The Review and Assessment process is designed to establish whether or not the statutory air quality objectives for pollutants are likely to be achieved by the required compliance date. This report is the air quality action plan and review and assessment progress report for Croydon Council for the period 2006/07.

Croydon Council published its first air quality action plan in 2002 which contained measures to improve air quality by the end of 2005. Since its implementation a total of 38 actions have been fully completed with the number of fully or partly completed actions to 56 out of a total of 67.

In March 2007 the Specialist Pollution Team was awarded beacon status for its work in dealing with air pollution. The award is given to local authorities that promote best practice within a particular theme, in this case 'Delivering Cleaner Air'. The Council demonstrated how they have developed new and innovative solutions to tackling the problem of air pollution and the actions taken to make Croydon a better and healthier place for those who live, work or travel here.

The development of the airTEXT service is one example of our commitment to target services at individuals who are disproportionately affected by air pollution, especially the elderly and young. Croydon was the first in Europe and possibly worldwide to develop this service, which has now been extended to cover the whole of London and Slough.

A new Travel Plan Group has been set up to take forward actions set out in travel plans. In 2006 65% of schools in Croydon have an approved travel plan, nineteen travel plans in the business sector have been developed and a further 8 are in progress with the support of the Council's Envibe programme.

Although the Council has failed to meet the nitrogen dioxide annual mean objective for 2005 we are still committed to building on the progress made on actions since 2002. The Council is due to publish a revised air quality action plan which will cover the period from 2007 to 2010. This new plan is aimed at making further improvements in air quality over the next four years and enables us to work towards the air quality objectives that come into force in 2010.

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## 1.0 Introduction

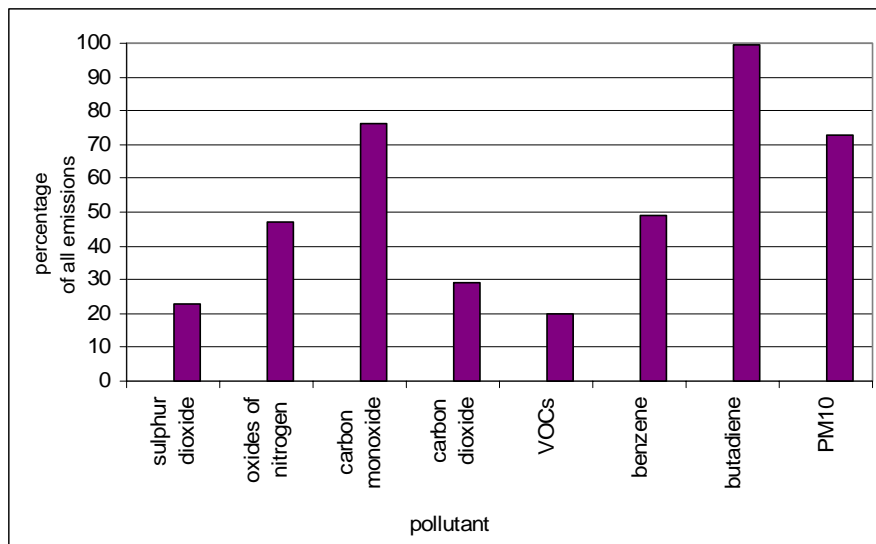
1.1 There has been a considerable improvement in air quality since the smogs of the 1950s through the introduction of the Clean Air Acts and tougher regulation on emissions from industry and road transport. It has been estimated that between 1990 and 2001, policies to improve air quality have resulted in more than 4,200 fewer premature deaths and 3,500 fewer hospital admissions per year in the UK. It has also been suggested that these policies have reduced life years lost by between 39,000 and 117,000 in 2001. However up to 24,000 deaths and 24,000 hospital admissions annually are still associated with high levels of air pollution. Hence further effort is required by the Council to work towards the achievement of air quality objectives.

### Air pollution sources


1.2 The main source of air pollution in Croydon is road traffic. The London Atmospheric Emissions Inventory (LAEI) has estimated that around 4,279 tonnes of these pollutants are produced from road traffic in Croydon each year. Around 305,359 tonnes of carbon dioxide (CO<sub>2</sub>) from road transport are also released each year. This makes up 32 per cent of the borough's CO<sub>2</sub> emissions. **Figure 1** shows the estimated contribution of road traffic to total emissions of individual pollutants in Croydon.

1.3 This report is the annual air quality action plan and review and assessment progress report for Croydon Council for 2006.

**Figure 1 Contribution of road traffic to pollution emissions in Croydon**



## Air quality information

- 1.4 Information about air quality is widely available but isn't always presented in a way that helps people engage with the issue. Croydon Council responded to this by setting up **airTEXT**, a visionary, innovative project, to provide timely information to vulnerable individuals. The service is aimed at improving people's health and quality of life, as well as helping reduce costs to the NHS.
- 
- The logo for airTEXT features the word 'airTEXT' in a blue, sans-serif font. The 'a' and 'r' are lowercase, while 'TEXT' is uppercase. A green swoosh underline starts under the 'a' and ends under the 'T'. A green starburst graphic is positioned to the right of the 'T', with a white dot in its center.
- 1.5 Croydon Council was the first organisation in Europe, and possibly worldwide, to develop this service. Air pollution alerts are delivered to people with asthma, bronchitis, emphysema and heart disease through SMS texts, voice messaging and e-mail. The alert provides a warning of deterioration in air quality, with simple advice on minimising exposure and self-management of symptoms.
- 1.6 The service was developed in partnership with Croydon Primary Care Trust, South West London Health Protection Unit, Cambridge Environmental Research Consultants, and PROMOTE. The service has proved to be such a success that it has recently been extended to cover twenty London boroughs and Slough Borough Council.

## 2.0 Review & assessment of air quality

- 2.1 Latest modelling and monitoring results show that Croydon has met and will continue to meet statutory air quality objectives for carbon monoxide (CO), benzene, 1, 3 butadiene, lead and sulphur dioxide (SO<sub>2</sub>) but not for nitrogen dioxide (NO<sub>2</sub>). **Table 1** shows the air quality objectives and the date that they should be met.
- 2.2 Nitrogen dioxide mainly comes from road transport, however emissions from non-road sources are not insignificant with 43 per cent of all emissions of oxides of nitrogen in Croydon originating from non-road sources such as domestic and commercial gas boilers. It is therefore necessary that we increase our efforts to tackle this problem in our new action plan for 2007-2010, which is discussed further in **Chapter 3**. The annual average levels of NO<sub>2</sub> away from busy roads are well below the air quality objectives, however monitoring shows that the air quality objective for NO<sub>2</sub> is not met at roadside monitoring stations. As we cannot monitor air pollution on every street in Croydon air quality modelling was carried out in 2002 and more recently in 2006.
- 2.3 Results from the modelling in 2002 showed widespread breaches of the nitrogen dioxide air quality objective along busy roads. As a result the whole of Croydon was declared as an air quality management area (AQMA). In response to this the Council published an air quality action plan in 2002 which is discussed further in **Chapter 3**.
- 2.4 Results from the modelling undertaken in 2006 as part of the Updating and Screening Assessment (USA) show that for 2010 there are still predicted exceedences of the objective value of 40 µg/m<sup>3</sup> for annual average concentrations of NO<sub>2</sub> for some major roads, in particular close to Wellesley Road, Purley Way and London Road. The hourly average NO<sub>2</sub> concentrations are predicted to be below the objective value of 200 µg/m<sup>3</sup> throughout Croydon for 2010. **Figure 2** shows the exceedences predicted for the annual average NO<sub>2</sub> concentrations (µg/m<sup>3</sup>) for 2010 using the ADMS Urban model. The areas in yellow, orange and red are predicted to breach the air quality objective of 40 µg/m<sup>3</sup>.
- 2.5 For 2010 the annual average PM<sub>10</sub> concentrations are predicted to be below the objective of 40 µg/m<sup>3</sup> everywhere in Croydon. The 24-hourly average concentration is also predicted to be below the objective value of 50 µg/m<sup>3</sup> throughout Croydon. **Table 2** provides a summary of findings of the review and assessment for Croydon. Detailed reports on each of the review and assessment stages are available from [www.croydon.gov.uk](http://www.croydon.gov.uk)
- 2.6 Detailed research into the sources of pollution causing breaches of the air quality objective in Croydon shows that over half of the emissions of NO<sub>x</sub> originate from road vehicles. Goods vehicles, buses and taxis in turn account for more than half of this. The review and assessment also showed that more than half of the pollution measured at the

Council's air pollution monitoring stations came from outside Croydon. This demonstrates that there is a need for a London-wide approach to emissions reduction. The proposal by the mayor of London to implement a London Low Emissions Zone is a significant step towards this.

**Table 1: Air quality objectives**

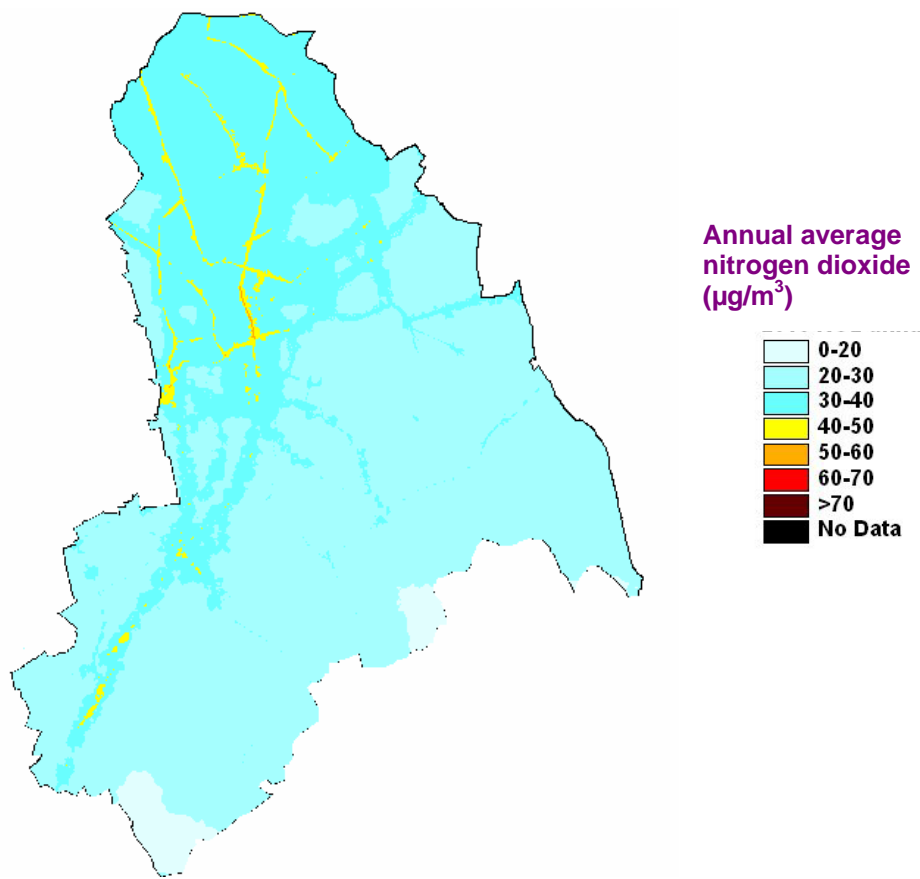
Pollutant	Air quality objective level	Compliance Date
Carbon monoxide	10 mg/m <sup>3</sup> or less, maximum daily eight hour running mean	31.12.03
Benzene	16.25 µg/m <sup>3</sup> or less, running annual mean	31.12.03
	5 µg/m <sup>3</sup> or less, annual mean	31.12.10
1-3, butadiene	2.25 µg/m <sup>3</sup> or less, running annual mean	31.12.03
Lead	0.5 µg/m <sup>3</sup> , annual mean	31.12.04
	0.25 µg/m <sup>3</sup> , annual mean	31.12.08
Nitrogen dioxide	200 µg/m <sup>3</sup> , hourly mean – not to be exceeded more than 18 times a year*	31.12.05
	40 µg/m <sup>3</sup> , annual mean*	31.12.05
PM <sub>10</sub>	50 µg/m <sup>3</sup> , 24 hour mean – not to be exceeded more than 35 times a year	31.12.04
	40 µg/m <sup>3</sup> , annual mean	31.12.04
	50 µg/m <sup>3</sup> , 24 hour mean – not to be exceeded more than ten times a year*	31.12.10
	23 µg/m <sup>3</sup> , annual mean*	31.12.10
	20 µg/m <sup>3</sup> , annual mean*	31.12.15
Sulphur dioxide	125 µg/m <sup>3</sup> , 24 hour mean – not to be exceeded more than three times a year	31.12.04
	350 µg/m <sup>3</sup> , hourly mean – not to be exceeded more than 24 times a year	31.12.04
	266 µg/m <sup>3</sup> , 15 minute mean – not to be exceeded more than 35 times a year	31.12.05

\*provisional objectives

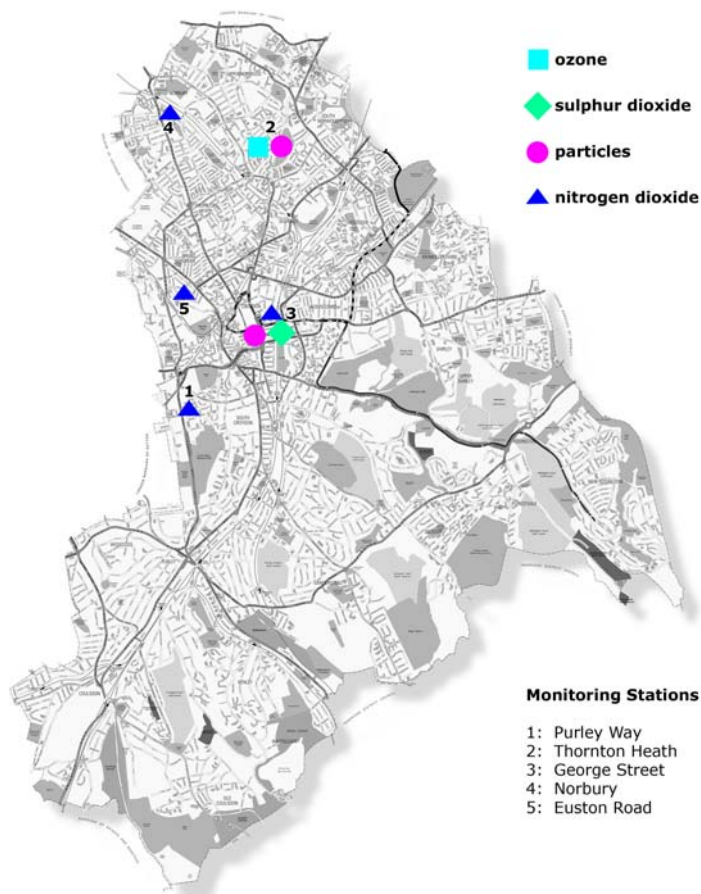
**Table 2 Summary of findings of review and assessment for Croydon**

Pollutant	Findings
Carbon monoxide	No likelihood of exceedences of the air quality objective. No further action required.
Benzene	No likelihood of exceedences of the air quality objective. No further action required.
1-3, butadiene	No likelihood of exceedences of the air quality objective. No further action required.
Lead	No likelihood of exceedences of the air quality objective. No further action required.
Nitrogen dioxide	Exceedence of the annual air quality objective Air quality action plan developed No likelihood of exceedences of the hourly air quality objective.
PM <sub>10</sub>	No likelihood of exceedences of the annual air quality objective and the hourly air quality objective No further action required
Sulphur dioxide	No likelihood of exceedences of the air quality objective. No further action required.

**Figure 2 Predicted annual average NO<sub>2</sub> concentrations for 2010**



**Figure 3 Automatic pollution monitoring stations in Croydon.**



## Monitoring results 2006

2.7 Croydon's air pollution monitoring network comprises five automatic monitoring stations. These are located south of the Fiveways junction on Purley Way; at the junction of George Street and Wellesley Road in central Croydon; on London Road, Norbury; on Euston Road (between Mitcham Rd and Purley Way) and at Beulah Road, Thornton Heath and can be seen in **Figure 3**. The stations measure NO<sub>2</sub>, PM<sub>10</sub> and O<sub>3</sub>. The Council also operates a non-automatic monitoring network of diffusion tubes which measure NO<sub>2</sub> at 14 sites around the borough. All data is ratified by the Environmental Research Group, Kings College and is fed into the London Air Quality Network (LAQN). **Table 3** summarises compliance with air quality objective levels for Croydon's air pollution monitoring stations for 2006 with **Table 4** detailing data capture rates.

**Table 3 Summary of compliance with air quality objective levels for Croydon air pollution monitoring stations, 2006**

Pollutant	Site	Complied with 15-min objective?	Complied with hourly mean objective?	Complied with 8-hrly mean objective?	Complied with 24-hrly mean objective?	Complied with annual mean objective?
NO <sub>2</sub>	Purley Way	-	Yes	-	-	No
NO <sub>2</sub>	George Street	-	Yes	-	-	No
NO <sub>2</sub>	London Road	-	Yes	-	-	No
NO <sub>2</sub>	Euston Road	-	Yes	-	-	Yes
O <sub>3</sub>	Thornton Heath	-	-	No	-	-
PM <sub>10</sub>	Thornton Heath	-	-	-	Yes	Yes
PM <sub>10</sub>	George Street	-	-	-	Yes	Yes

\*Data for 2006 has not been fully ratified and is therefore subject to change

**Table 4 Data capture rates for Croydon's air pollution monitoring stations**

Site	Pollutant	Data Capture (%)
CR2	NO <sub>2</sub>	96%
CR4	NO <sub>2</sub>	94%
CR5	NO <sub>2</sub>	95%
CR6	NO <sub>2</sub>	95%
CR3	O <sub>3</sub>	96%
CR3	PM <sub>10</sub>	93%
CR4	PM <sub>10</sub>	99%

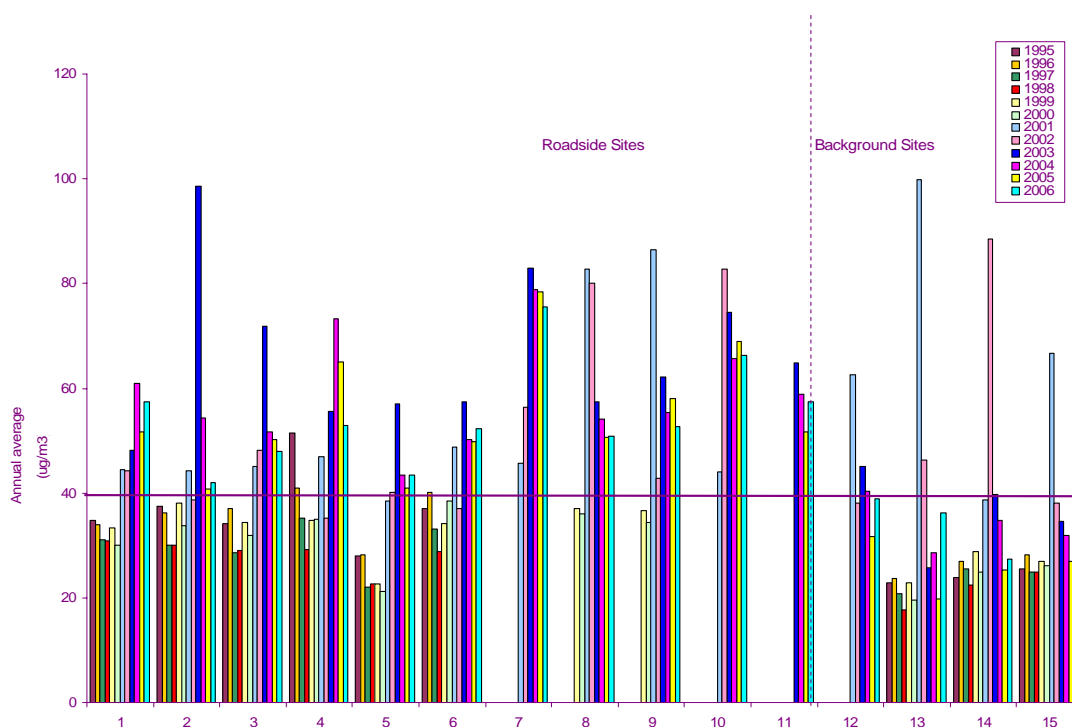
## Nitrogen dioxide – diffusion tube results

2.8 Eleven diffusion tubes are located at roadside sites with three measuring background levels. A correction factor has been applied to the diffusion tube data. The figure applied is based on results from co-location tubes and continuous air quality monitoring stations. For 2006 the mean correction factor is 1.09. **Table 5** shows the mean correction factors for 2001-2006.

**Table 5 Diffusion tube correction factors, 2001-2006**

2001	x 1.37
2002	x 1.36
2003	x 1.36
2004	x 1.24
2005	x 1.56
2006	x 1.09

**Figure 4 Annual average nitrogen dioxide levels 1995 – 2006**



1. Purley Town Hall	5. Heathfield centre	9. George St Monitoring Station <sup>A</sup>	13. Heathfield Centre
2. Purley Way	6. Selsdon Road	10. London Road Norbury <sup>B</sup>	14. Malcolm Road
3. South Norwood Hill	7. Wellesley Road	11. South Norwood High St <sup>C</sup>	15. Purley Town Hall
4. Whitehorse Lane	8. Purley Way Monitoring Station <sup>A</sup>	12. Euston Road <sup>B</sup>	

Notes: A. sites commenced in 1999  
2003

B. sites commenced in 2001

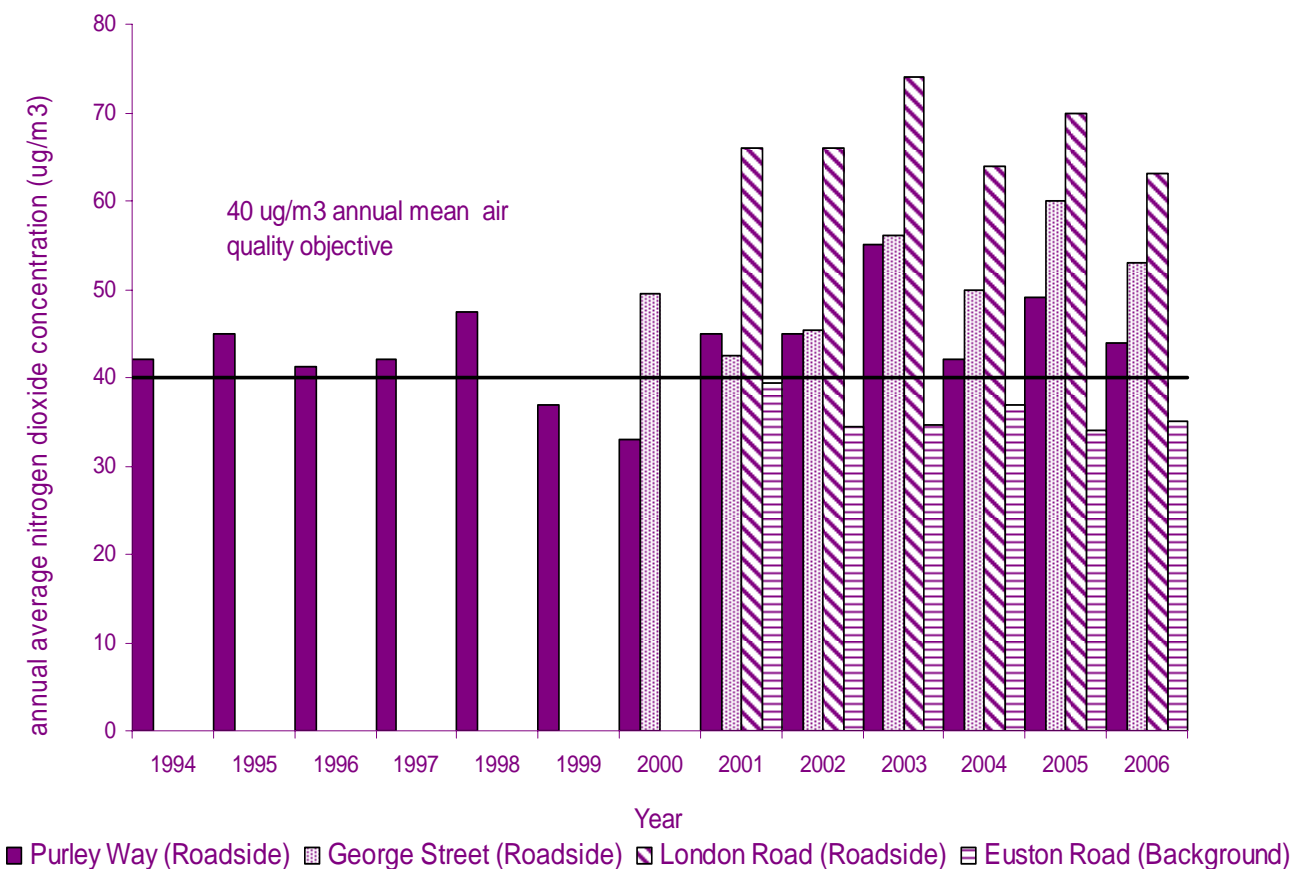
C. sites commenced in

2.9 The  $40\mu\text{g}/\text{m}^3$  air quality objective level was exceeded at 11 sites in 2006 (see **Figure 4**), the same number as in 2005, this level has been fairly consistent since 2003. The annual average roadside level for 2006 was  $54.12\mu\text{g}/\text{m}^3$ , compared to  $55.79\mu\text{g}/\text{m}^3$  in 2005. The annual average level at background sites was  $49.16\mu\text{g}/\text{m}^3$  compared to  $24.03\mu\text{g}/\text{m}^3$ , in 2005.

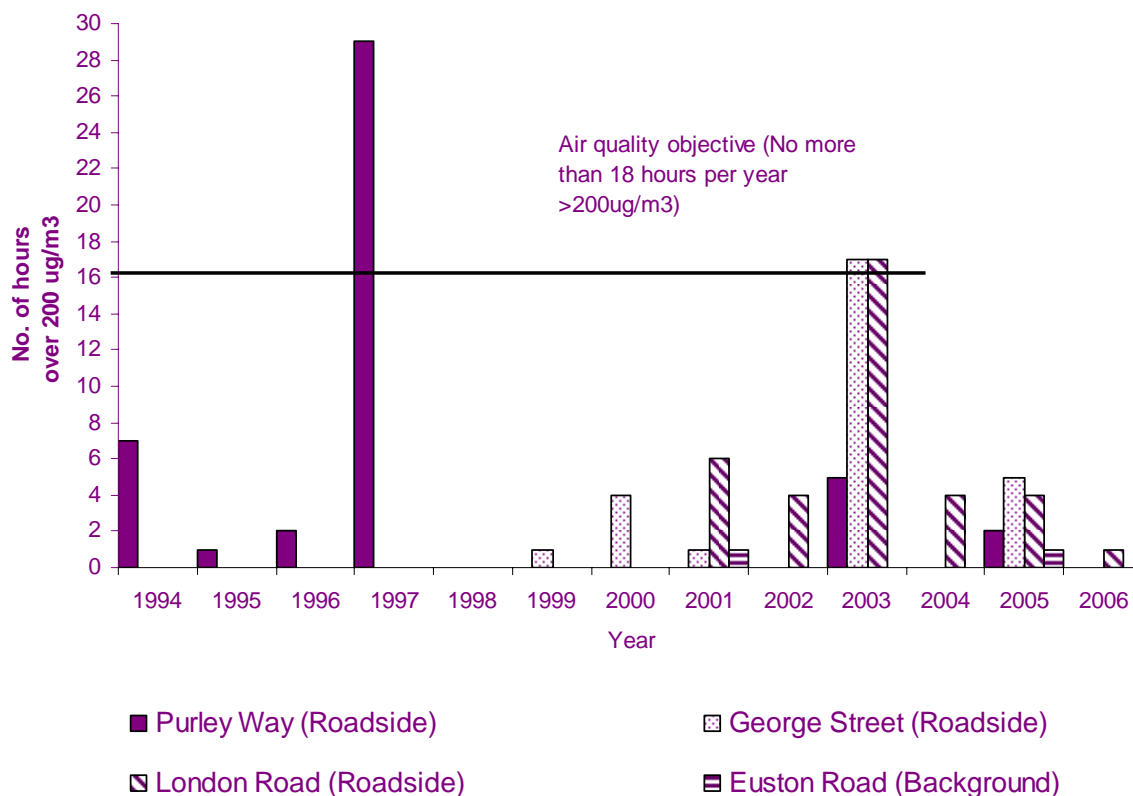
### Nitrogen dioxide – automatic monitoring

2.10 The  $\text{NO}_2$  annual average objective level was also exceeded at the Purley Way, George St and London Road automatic monitoring stations in 2006, recording levels of  $44\mu\text{g}/\text{m}^3$ ,  $53\mu\text{g}/\text{m}^3$  and  $63\mu\text{g}/\text{m}^3$  respectively. The annual average objective limit was not exceeded at the Euston Road background site, which recorded a level of  $35\mu\text{g}/\text{m}^3$ . Annual trends in nitrogen dioxide levels for all automatic sites between 1994 and 2006 can be seen in **Figure 5**. The hourly objective level was not exceeded at any of the four stations. **Figure 6** shows the number of days exceeding the nitrogen dioxide levels compared to the hourly air quality objective at Purley Way, George St, London Road and Euston Road.

**Figure 5**  $\text{NO}_2$  levels at Purley Way, George St, London Rd and Euston Rd 1994 – 2006 compared to annual mean air quality objective level ( $40\mu\text{g}/\text{m}^3$ ).



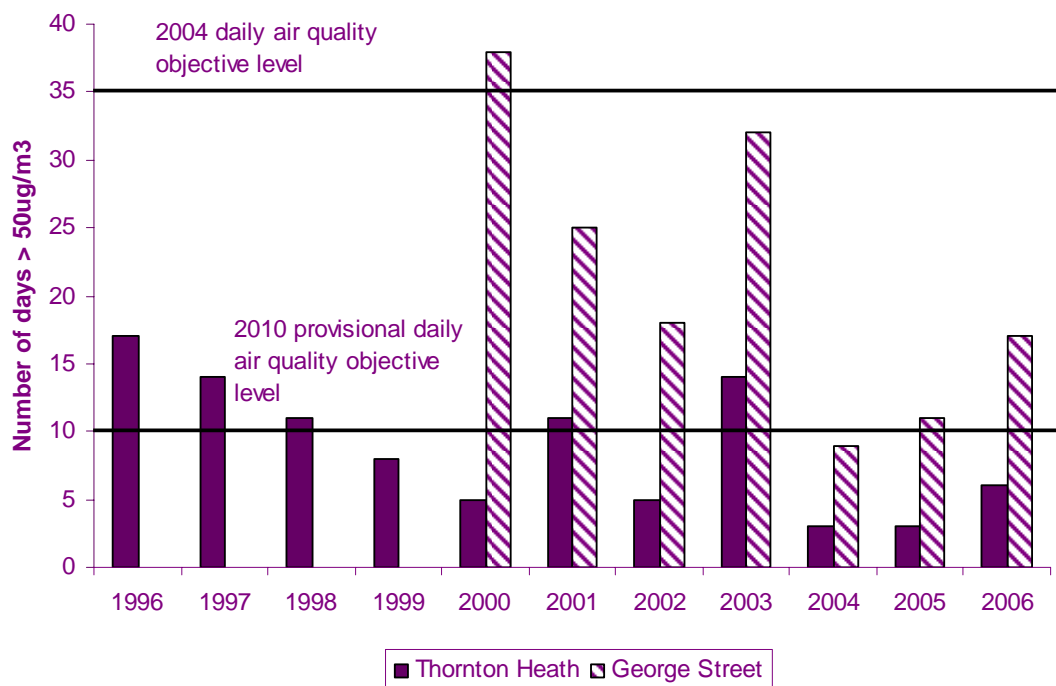
**Figure 6** NO<sub>2</sub> levels at Purley Way, George St, London Rd and Euston Rd compared to hourly air quality objective (no more than 18 occurrences of hourly mean greater than 200µg/m<sup>3</sup>).



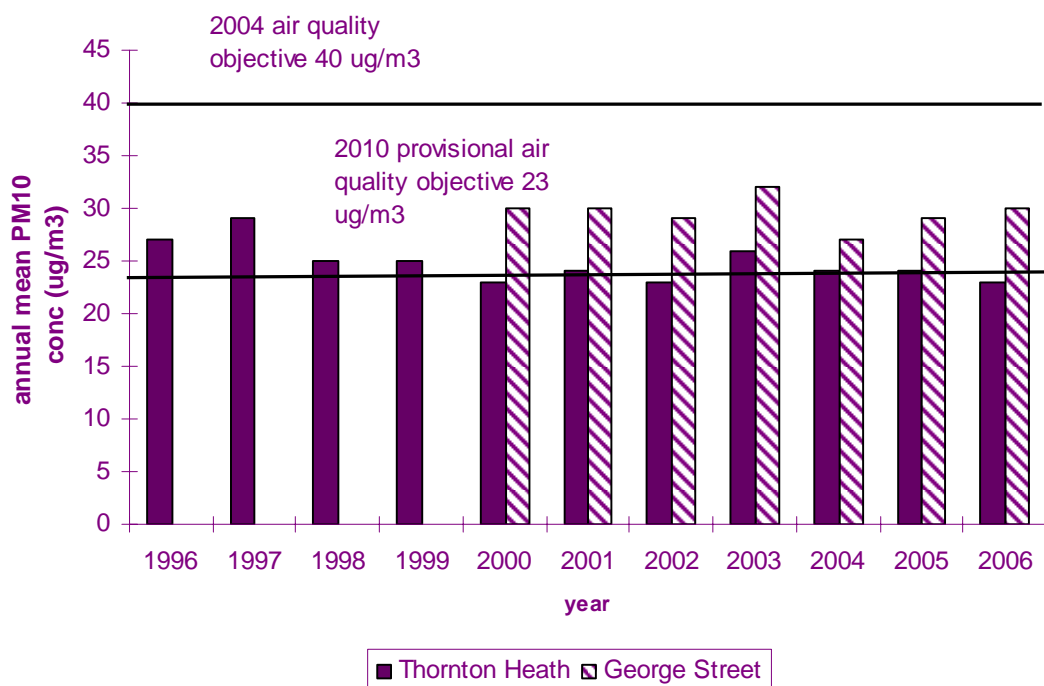
## PM<sub>10</sub>

2.11 There were 6 days when PM<sub>10</sub> levels exceeded 50µg/m<sup>3</sup> at Thornton Heath monitoring station and 17 days at George St in 2006, i.e. below the maximum 35 days set by the air quality objective. **Figure 7** shows PM<sub>10</sub> levels at Thornton Heath and George St compared to the daily air quality objective for 2006 and (provisional) 2010 objective from 1996 to 2006. The annual mean was recorded as 23µg/m<sup>3</sup> at Thornton Heath and 30µg/m<sup>3</sup> at George St, also not exceeding the annual mean objective level of 40µg/m<sup>3</sup>. **Figure 8** shows PM<sub>10</sub> levels compared to the annual mean for 1996 to 2006 compared to the 2004 and (provisional) 2010 air quality objective.

**Figure 7** PM<sub>10</sub> (gravimetric) levels at Thornton Heath and George St, 1996- 2006 compared to the daily air quality objective.



**Figure 8** PM<sub>10</sub> (gravimetric) levels at Thornton Heath and George St, 1996-2005 compared to the annual mean air quality objective



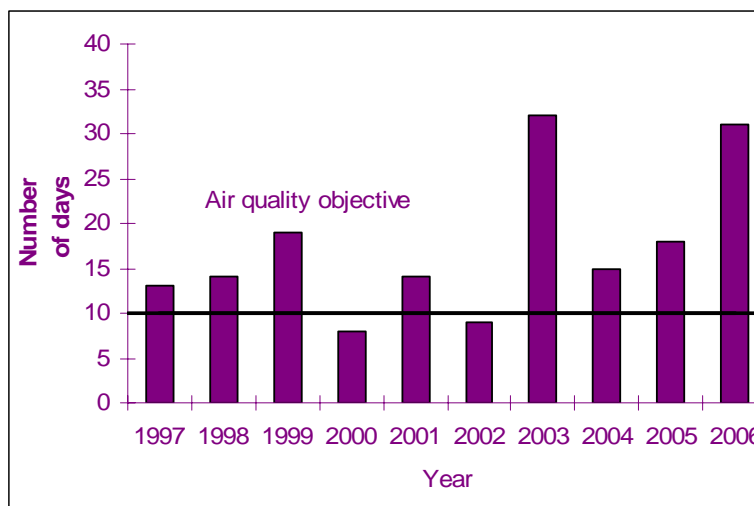
## Sulphur dioxide

2.12 Sulphur dioxide (SO<sub>2</sub>) was measured at George St for five years, between 2000 and 2005 and results have shown that SO<sub>2</sub> levels in Croydon are well below all the air quality objectives. As a result it was decided to discontinue monitoring SO<sub>2</sub> in April 2006.

## Ozone

2.13 During 2006 there were 31 days when the 8-hourly rolling mean level of 100µg/m<sup>3</sup> was exceeded, therefore not complying with the objective of no more than 10 days exceeding this level. **Figure 9** shows trends of ozone levels from 1996 to 2006 at Thornton Heath monitoring station.

**Figure 9 Trends of ozone levels from 1996 to 2004 compared to the air quality objective (no more than 10 days exceeding the maximum 8hr rolling mean greater than 100µg/m<sup>3</sup>)**



## New local developments

2.14 It is a requirement to include in the progress report details on any changes within the borough that may have an affect on air quality. These changes include any new industrial installations i.e. Part A, Part A2 or Part Bs; any new developments with an impact on air quality, especially those that will significantly change traffic flows that have been granted planning permission; and any new landfill sites, quarries etc that have been granted planning permission, and which have nearby relevant exposure. There were no new industrial installations permitted in 2006-07 however 54 dry cleaners submitted an application for a permit in 2006, with permits required to be issued by 31 October 2007.

2.15 **Appendix 1** provides details on major planning permissions granted in 2006. A major development in this instance is considered as 10 or more units in residential developments and other uses of over 1000 sq.m floorspace or site area.

2.16 In accordance with Part IV of the Environment Act 1995, further air quality reviews and assessments will continue towards 2010. Each year the Council reviews the most recent data and developments within the borough and re-assesses pollutant levels against current air quality objectives. **Table 6** describes the time-scales for submissions of the reviews and assessments and progress reports.

**Table 6 Time-scales for submission of Review and Assessments and Progress Reports**

LAQM activity	Completion date	Actions
Progress Report	End of April 2008	Update on AQMA and Action Plan.
Updating and Screening Assessment	End of April 2009	Identify changes in recent data regarding air quality. Assess need for Detailed Assessment.
Detailed Assessment	End of April 2010	Re-assess AQMA with detailed modelling assessment, if identified in 2009.
Progress Report	End of April 2010	Update on AQMA and Action Plan.

### 3.0 Air Quality Action Plan progress report

3.1 Under section 84(2) of the Environment Act 1995 local authorities are required to draw up an action plan following the designation of an Air Quality Management Area. The action plan sets out what the authority intends to do in pursuit of the air quality objectives.

#### Progress made during 2006/07

3.2 Croydon's first Air Quality Action Plan was published in April 2002. An annual progress report has been published each year showing progress in implementing the plan. The plan contained measures to improve air quality by the end of 2005, the compliance date for the nitrogen dioxide air quality objective on which the AQMA was declared. Since its implementation 38 measures have been fully implemented with a further 18 partially completed. Although the completion date for the action plan ended in 2005 work has still been ongoing during 2006, **Table 7** provides a summary of work progressed during 2006/07.

**Table 7 Summary of progress on actions during 2006/07**

Action	Progress made during 2006/07
airTEXT service	Evaluation of the airTEXT service after one year found that 97% of users said that airTEXT alerts were "useful" or "very useful" with 64% stating they had changed their behaviour when they received the alerts. In March 2007 on the basis of the success of airTEXT in Croydon, the scheme was extended London-wide.
South London Freight Quality Partnership (SLFQP)	<p>Extension of the SLFQP to eight Boroughs.</p> <p>Distribution and analysis of initial SLFQP surveys to business and the freight transport industry.</p> <p>Development and implementation of a communications strategy for SLFQP activities.</p> <p>Production of four electronic members' newsletters distributed to all SLFQP Borough, transport industry and business contacts.</p> <p>Development, maintenance and content development for the SLFQP website.</p> <p>Development of a freight consolidation centre business plan.</p> <p>Legal Loading Initiative - working with the partner boroughs, local businesses and TfL review and identify improved delivery arrangements in six locations in south London where the existing situation is unsatisfactory and causing problems to local traffic and business efficiency.</p> <p>Ongoing liaison with FTA and RHA as key industry stakeholders and developing initial contacts with local chambers of commerce and South London Business.</p>

	<p>Discussions with Surrey County Council of regional links to their FQP.</p> <p>Maintaining a close link with the TfL Freight Unit in order to understand the priorities of the developing strategy for freight transport in London.</p> <p>Initiating discussions regarding the potential for night-time deliveries with the South London Boroughs and potentially interested business partners.</p>
Borough-wide review of traffic signage (in order to ensure that road signs are clear, visible, and appropriately positioned, with the aim of minimising circling traffic).	The borough-wide review encompassed Pedestrian Signage within the Town Centre and at other major transportation generators within the Borough.
Variable message sign system for town centre car parks.	The s106 agreement with Minerva has been signed. A new project plan is being discussed with Minerva/Lend Lease Variable Message systems.
Council vehicle fleet emissions standard.	<p>The Chemecol fuel additive has been used successfully. There has been a 3% fuel economy benefit, as well as reductions in oxides of nitrogen (NO<sub>x</sub>), particles and carbon dioxide (CO<sub>2</sub>) emissions. This product is also being used by the BISTRO biodiesel scheme to reduce NO<sub>x</sub> levels associated with biodiesel use.</p> <p>The Council's fleet was reviewed in 2006, in response to the Mayor of London's proposals for the London LEZ and is satisfied that the heavy duty vehicle fleet will be compliant with the LEZ entry criteria of Euro II + RPC from 2008 and Euro IV + RPC by 2010. A small number of vehicles do not currently meet the Euro II + RPC standard, but these are expected to be disposed of in the coming months.</p> <p>The Council's Contract Services Committee has now granted approval to allow vehicle replacement by contract hire. This will result in reducing the average age of the fleet, introducing new, less polluting vehicles. 45 vehicles have been replaced to date. A further 30+ are expected to be replaced this year</p>
Review of lease car scheme and car allowances (in order to identify and implement reforms which encourage the use of the cleanest and most fuel efficient vehicles and restrict business mileage).	Croydon recruited a new environmental management officer in 2006 who is setting up a new Travel Plan Group to advance these issues. The Travel Plan is progressing; an initial staff survey has been completed and recommendations will be developed soon.
Assist schools with the development of travel plans	65% of schools in Croydon have an approved travel plan.
Support local businesses & groups to assist them to develop Green Travel Plans.	19 travel plans have been developed with another 8 now underway through the Envibe programme, co-ordinated by Croydon Council to support businesses develop their environmental management activities
Support to local businesses & groups to assist	Work still ongoing and support continues to

them when introducing flexible working patterns for staff and advice to businesses	be available.
Implement the Borough Cycling Strategy	A further 37 cycle parking stands were introduced across the borough in 2006/07. Also £375k worth of <b>London Cycle Network</b> (LCN+) projects were designed and implemented. Feasibility cycle route studies were commissioned for Croydon town centre and completed. The 2007/08 funding commitment for LCN+ schemes is £616k for eight links.
Install toucan crossings where appropriate on the borough's cycle network.	Four new toucan crossings form part of a cycling scheme improvement taking place at the Cherry Orchard Rd/Addiscombe Road junction. Funding has been provided by TfL.
Implement the Borough Strategy for encouraging walking.	TfL have allocated £300k primarily to reduce the number of pedestrian involvement collisions in the borough by improving crossing points and pedestrian facilities, with an additional £35k to investigate pedestrian safety improvements at an existing signal controlled junctions for 2007/08.
Implement a scheme to provide a local bus service to the Purley Way North Industrial Area and adjoining retail parks from the Tramlink interchange at Waddon Marsh.	Fresh talks are taking place with the Society of London Manufacturers and their members based in and around Purley Way on workplace travel plans and if a business case can be made to Transport for London to provide additional bus services along the Purley Way corridor or re-route an existing service this will be pursued.
Work with schools and parents to develop a programme to further encourage walking and cycling to school.	<p>Eleven schools have prepared and submitted school travel plans to TfL for approval. The plans aim to reduce the number of car trips made to and from school by encouraging parents/guardians and school staff to look at healthier and more sustainable forms of travel. £362k has been allocated by TfL for School Travel Plan co-ordination and implementation schemes for 2006/07, the funding is used to design and implement road safety, walking and cycling measures identified by schools through their travel plans.</p> <p>The original bursary from Central Government to secure the employment of a School Travel Plan Coordinator has been extended a further two years to March 2008.</p> <p>During 2006/07 four schools, that identified the need for child pedestrian training in their school travel plans, were included in a revised Kerbcraft programme. Further schools in the New Addington area are to be incorporated into the new programme during the 2007 summer term. Since April 2006 the child pedestrian training scheme have been funded directly by the Council and not a government bursary.</p>
20mph zones.	The Council has introduced a further 4 localised 20mph zones outside schools in

	2006/07, increasing the overall number to 30 schemes. No further schemes are envisaged in 2007/08.
Coulsdon Town Centre Improvement Scheme.	<p>Implementation of the Coulsdon Area Regeneration Strategy commenced with resurfacing and lighting of alleyways and part of Chipstead Valley Road in 2004/5 and the planting of three trees. Phase 2, Coulsdon Town Centre Improvement Scheme, a Mayor's 100 Spaces project is under way. The first public consultation took place in the summer of 2006, the second will take place on the preliminary design in June 2007. The current project programme indicates that implementation on site should take place in Autumn 2008 with completion intended in 2009.</p> <p>Clear zone proposals are currently not part of the formal brief for the Mayors 100 Spaces although measures such as street tree planting and the decrease in traffic on the Brighton Road due to the opening of Farthing Way should lead to an improvement in air quality.</p>
Review the parking policy in the revised Unitary Development Plan (UDP) (to ensure the construction of parking spaces in new developments in Croydon is restrained).	The 'Croydon Plan' was adopted in July 2006 and includes the following policy on parking, "the Council will restrict the amount of car parking spaces in new development in order to promote sustainable transport choices and reduce growth in the number of motorised journeys".
Introduce policies in the UDP and use agreements under section 106 of the Town and Country Planning Act 1990 to encourage appropriate developments to have in place facilities for safe and secure cycle parking.	The 'Croydon Plan' was adopted in July 2006 and includes the following policy on cycle parking, "major new development should make suitable provision for cycling access to and from the surrounding road network. Where appropriate, the Council will seek developer contributions (in S.106 Agreements) to off-site cycling facilities or infrastructure".

### **Air Quality Action Plan 2007 – 2010 Consultation Draft**

- 3.3 Croydon's first air quality action plan covered the period up to the end of 2005. The Council has recently consulted on a new air quality action plan which sets out measures the Council proposes to take to improve air quality in Croydon until 2010, the next target date for air quality objectives
- 3.4 Government policy guidance on local air quality management (LAQM.PG(03)) requires the Council to quantify the contribution of the sources of air pollution to predict exceedences of air quality objectives, in order to ensure that action plan measures are effectively targeted. The process was undertaken as part of a further review and assessment of air quality in 2003 and it was noted that the data on which it is based has significantly changed since then. The draft action plan is therefore based on that information.

- 3.5 Some of the measures proposed in the new action plan such as the airTEXT project and tackling emissions from idling vehicles, continue or build on the initiatives started in the first air quality action plan. Others, for instance reducing emissions of air pollution from homes are new areas that require focusing on.
- 3.6 The total number of actions in the new draft plan has been reduced to eleven, in order to concentrate on measures taken *specifically* to deliver cleaner air and to make this process more focussed and manageable. For example, areas such as encouraging walking and cycling and using public transport are not included as these actions and their benefits for air quality are covered by other strategies and policies, for instance the Council's Green Travel Plan. **Box 1** summarises the action listed in the draft action plan for 2007-2010
- 3.7 The action plan was developed through interviews with stakeholders on the telephone, e-mail and face-to-face interviews. The stakeholders were from five sectors: business, transport, domestic, environment and health. Individuals rather than organisations were targeted to give a broad range of perspectives in each group. The measures set out are those which received support from a majority of the stakeholders. The final plan is due for publication in June 2007.

**Box 1 Summary of the actions listed in Croydon's draft air quality action plan 2007-2010**

Carry out awareness raising and enforcement patrols to deal with vehicles idling unnecessarily. We will look at options for extending this role to other Council staff who patrol the borough
Joint working with Vehicle Operator Services Agency (VOSA) to monitor motor vehicle emissions. Enforcement action will be conducted fairly so that offenders have a reasonable amount of time to carry out any required work to their vehicle, unless it is a danger to the public
Support the proposals for the London Low Emission Zone (LEZ), work with other boroughs and industry to support the introduction of the LEZ, and ensure the Council's fleet vehicles comply with requirements of the zone
Reduce the impact of air pollution from goods vehicles through the South London Freight Quality Partnership
Work with the London Hydrogen Partnership to make Croydon a flagship borough using hydrogen as a fuel
Impose and enforce tighter standards on air pollution emissions from construction sites
Develop a strategy to reduce air pollution emissions from homes in Croydon
Investigate the case for promoting a ban on bonfires throughout London
Update the Council's planning guidance to take into account best practice emerging from other local authorities, case law and our own experience in dealing with air quality and development
Expand and improve the <i>airTEXT</i> service to reach more vulnerable people by text messages, voice messaging, and e-mail and help other boroughs implement <i>airTEXT</i>

## 4 References

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Air Quality Action Plan consultation draft 2007-2010

## Appendix 1 Major planning permissions granted in 2006

### Major commercial planning permissions

Borough Reference	Permission Date	Development Description	Total Proposed Floorspace	Site Name/Number	Primary Street Name
03/00534/P	06/04/2006	Redevelopment of offices.	30,100	13 - 16	Dingwall Road
04/04777/P	01/06/2006	Redevelopment of the Croydon Gateway Site comprising the demolition of the existing buildings and the construction of 9 new buildings (of 10 to 32 storeys) comprising 4 new office buildings, a 26 storey gateway tower adjacent to East Croydon Station, residential flats (560 flats including affordable housing and live work units), restaurant and café uses, health and fitness club, a replacement of a 200 seat theatre, public realm and associated landscaping and parking landscaped public realm including a winter garden and associated parking.	110,826	Gateway Site	George Street
05/00592/P	03/02/2006	Redevelopment to form 16 new flats and a community centre.	1,040	Land Aj 78	London Road
05/02108/P	14/09/2006	Erection of 5 two storey buildings for use within Class B1 (c) (light industry) or B2 (general industrial) or B8 (storage and distribution); formation of access road and provision of associated parking	2,555	76	Purley Way
05/02169/P	19/10/2006	Demolition of existing building and use of site for the display of used cars in connection with existing use of no 8	1,013	6	Imperial Way
05/04225/P	27/01/2006	Redevelopment of ex Water Works to a garage and storage.	1,563	Kenley Water Treatment Works	Godstone Road

Borough Reference	Permission Date	Development Description	Total Proposed Floorspace	Site Name/Number	Primary Street Name
05/04480	17/03/2006	Demolition of church and hall; erection of single/two storey replacement church and hall; alterations to vehicular access and provision of associated parking	1,674	Christ Church & Hall Adj / 861	Brighton Road
05/04996/P	11/01/2006	Use of building for purposes within class B1 (business) or B2 (general industrial) or B8 (storage and distribution)	4,059	52	Ullswater Crescent
06/00215/P	03/03/2006	Redevelopment of a Leisure Centre.	4,527	South Norwood Swimming Baths, 164	Portland Road
06/00247/P	21/04/2006	Demolition of existing building; erection of six storey office building with basement ; formation of vehicular access and ramp and provision of associated parking spaces	9,291	Quest House/11	Cross Road
06/00409/P	19/04/2006	Demolition of existing building; erection of a two/four storey building to provide a 40 place residential home for elderly mentally frail people and a 16 place day centre for elderly people living at home; alterations to the vehicular access and provision of associated parking	2,725	Langley Oaks Residential Home/2	Langley Oaks Avenue
06/00410/P	19/04/2006	Demolition of existing building; erection of two/three storey building comprising a 60 place residential unit for elderly mentally frail people, along with a two 24 place day centres and community service offices for the community mental health team, community memory service and the Alzheimers Society; provision of associated parking. (Amended Description)	5,202	Heavers Farm Adult Traing Centre/122	Selhurst Road
06/00411/P	19/04/2006	Demolition of existing building; erection of three storey building to provide a 50 place residential unit for elderly physically frail people and a 36 place day centre for elderly people living at home; provision of associated parking	3,496	Addington Heights/1	Milne Park West
06/00415/P	31/03/2006	Redevelopment: CETS (education) & job centre.	1,372	S.E. End Of Car Park	Central Parade

Borough Reference	Permission Date	Development Description	Total Proposed Floorspace	Site Name/Number	Primary Street Name
06/02272/P	15/12/2006	Erection of four storey school extension and erection of free standing 12 metre wind turbine.	2,147	Virgo Fidelis Convent (Site B)	Central Hill
06/03201/P	03/11/2006	Erection of two storey building with roof plant area for use within class B1 (business) and a single storey building comprising 4 light industrial workshops ; provision of associated parking	1,544	Capital Business Centre, 22	Carlton Road
06/03945/P	22/12/2006	Demolition of changing rooms, swimming pool and gym; erection of two storey extension to sports hall to provide dance and sports facilities; provision of multi use games area and two tennis courts	1,612	Coulsdon College	Placehouse Lane
06/04325/P	24/11/2006	Use as indoor childrens adventure area and replacement of opaque panelling on first floor with clear glass	2,156	3	The Colonnades

## Major residential planning permissions granted

Borough Reference	Site Name/Number	Primary Street Name	Permission Status	Development Description	Permission Date	Proposed Total Residential Units	Proposed Residential Site Area
01/00473/P	44-60	Cherry Orchard Road	Submitted	Demolition of existing buildings; erection of 2 five/six storey buildings comprising 22 one bedroom and 33 two bedroom flats; Formation of vehicular access and provision of 23 parking spaces at basement level	02/10/2006	55	0.301
02/01823/P	Tripod House, 54-60	Sydenham Road	Submitted	Demolition of the existing buildings. Erection of 2 four storey buildings with accommodation in the roofspace with underground car parking, and one 3 storey building with accommodation in the roofspace to provide a total of 83 flats. Erection of 3 two storey houses. Provision of 63 parking spaces.	04/01/2006	86	0.619
02/03473/P	(Front Of) Guild House, 111-115	Addiscombe Road	Started	Demolition of existing buildings; erection of 3/4 storey building fronting Addiscombe Road comprising 8 one bedroom and 21 two bedroom flats; formation of access road and provision of associated parking	01/03/2006	29	0.186
03/02116/P	R/O Guild House, 111-115	Addiscombe Road	Started	Erection of a four storey building (at rear of site) comprising 23 one bedroom and 11 two bedroom flats; formation of access road and provision of associated parking	01/03/2006	34	0.230

Borough Reference	Site Name/Number	Primary Street Name	Permission Status	Development Description	Permission Date	Proposed Total Residential Units	Proposed Residential Site Area
03/03536/P	130	Brighton Road	Submitted	Alterations; conversion to form 1 three bedroom, 8 two bedroom, 10 one bedroom, and 5 studio flats and use of part of first floor as fitness centre for residents use; formation of courtyard areas; demolition of detached building at rear; erection of detached four-storey building at rear to comprise 10 two bedroom and 5 one bedroom flats; provision of 18 car parking spaces and access ramp to rear entrance of existing building.	25/01/2006	39	0.470
04/00427/P	12-40	Sanderstead Road	Submitted	Demolition of existing buildings; erection of 2 two-three storey buildings comprising uses within classes A1 (retail) or A2 (financial and professional services) or B1 (business) or D1 (non residential institution) on ground floor fronting Sanderstead Road and 26 two-bedroom and 20 one-bedroom flats on upper floors; formation of access road and provision of associated parking	05/07/2006	46	0.417
04/00914/P	2-4	Parchmore Road	Started	Redevelopment, creating 1 x house, 30 flats and retail.	15/02/2006	31	0.064
04/02731/P	Hogarth Court	Hogarth Crescent	Submitted	Alterations; conversion to form 19 one bedroom and 5 two bedroom flats; provision of 12 parking spaces	17/05/2006	24	0.157

Borough Reference	Site Name/Number	Primary Street Name	Permission Status	Development Description	Permission Date	Proposed Total Residential Units	Proposed Residential Site Area
04/04684/P	Ex - Telephone Exchange, 4	Scarbrook Road	Started	Alterations and extensions to create an 8 storey building comprising 286 sq metres (1 unit) for either use class A1 (retail), A2 (financial and professional services) , A3 (restaurant/cafe), B1 (business), D1 (non residential institution) or D2 (assembly and leisure), 565 sq metres (1 unit) for class A3 (restaurant/cafe) and 66 residential units with landscaped service area	02/05/2006	66	0.120
04/04685/P	Adj. Croydon Park Hotel	Altyre Road	Started	Erection of a five storey building comprising 20 flats and a four to twenty six storey building comprising 176 flats. Formation of vehicular access and provision of associated basement parking, landscaping and refuse storage.	02/05/2006	196	0.460
04/04777/P	Gateway Site	George Street	Submitted	Redevelopment of Croydon Gateway Site comprising demolition of existing buildings and the construction of 9 new buildings (of 10 / 32 storeys) comprising 4 new office buildings, a 26 storey gateway tower adjacent to East Croydon Station, residential flats (560 flats including affordable housing and live work units), restaurant & café uses, health & fitness club, replacement of 200 seat theatre, public realm and associated landscaping and parking landscaped public realm including a winter garden and associated parking.	01/06/2006	560	0.918

Borough Reference	Site Name/Number	Primary Street Name	Permission Status	Development Description	Permission Date	Proposed Total Residential Units	Proposed Residential Site Area
04/05331/P	85	Foxley Lane	Submitted	Redevelopment of house to form 13 x 2 bedroom flats.	18/04/2006	13	0.275
05/00429/P	468-472	London Road	Started	Redevelopment to form 33 flats, offices and a shop.	03/01/2006	33	0.235
05/00495/P	199-203	St James's Road	Submitted	Demolition of existing buildings; erection of four storey building comprising 32 two bedroom flats and a terrace of 6 two storey three bedroom houses with accommodation in roofspace; formation of access road and provision of associated parking	07/07/2006	38	0.279
05/00592/P	Land Aj 78	London Road	Started	Redevelopment to form 16 new flats and a community centre.	03/02/2006	16	0.114
05/00694/P	Sanderstead Road Car Park	Sanderstead Road	Started	Redevelopment, creating 29 flats (6x1 bed & 23x2 bed).	13/02/2006	29	0.330
05/00742/P	R/O 2-8	Warminster Road	Superseded	Demolition of nos 6 and 8; erection of three storey block with accommodation in the roofspace comprising 6 one bedroom and 3 two bedroom flats; erection of a terrace of 4 three bedroom houses and a detached two bedroom bungalow; formation of access road and provision of associated parking	23/02/2006	14	0.240
05/01800/P	2-14	Hastings Road	Submitted	Demolition of existing buildings; erection of three storey building comprising 24 two bedroom flats; formation of vehicular access and provision of associated parking	19/06/2006	24	0.138

Borough Reference	Site Name/Number	Primary Street Name	Permission Status	Development Description	Permission Date	Proposed Total Residential Units	Proposed Residential Site Area
05/01961/P	2-14	Whitgift Street	Started	Erection of a 8/10 storey building with an A1/B1 use on ground floor with 24 one and 52 two bed flats above.	10/08/2006	76	0.080
05/02161/P	42-44	Brighton Road	Started	Demolition of existing houses and erection of 13 flats	04/07/2006	13	0.158
05/02678/P	Car Park	Dale Road	Started	Erection of 1 two/three storey and 1 two/three/four storey buildings with undercroft parking comprising 12 two bedroom and 18 one bedroom flats; formation of vehicular access and provision of associated car and cycle parking spaces	22/02/2006	30	0.285
05/03244/P	73	Croham Road	Submitted	Demolition of existing building; erection of two storey building with accommodation in roofspace comprising 11 two bedroom and 1 one bedroom flats; formation of vehicular access and provision of associated parking	12/04/2006	12	0.170
05/03370/P	2-4	Birdhurst Avenue	Submitted	Demolition of existing buildings; erection of 1 three storey building with accommodation in roofspace and 1 two storey building with accommodation in roofspace comprising a total of 12 two bedroom flats; formation of vehicular access and provision of associated parking.	19/12/2006	12	0.140

Borough Reference	Site Name/Number	Primary Street Name	Permission Status	Development Description	Permission Date	Proposed Total Residential Units	Proposed Residential Site Area
05/03395/P	13	Russell Hill	Submitted	Demolition of existing buildings; erection of 2 two storey buildings with accommodation in roofspace comprising a total of 10 two bedroom flats and associated parking spaces	13/06/2006	10	0.237
05/03832/P	390-398	London Road	Completed	Erection of 2/3/6/8/9 storey building with basement comprising a use within Class A3, A4 or A5 on the ground floor, 36 two bedroom and 2 three bedroom flats on the upper floors; formation of vehicular access and provision of parking spaces for 18 cars, 15 motorcycles and 38 bicycles at basement level.	11/01/2006	38	0.127
05/04066/P	R/O 143-147	Brighton Road	Submitted	Erection of two storey building with accommodation in roofspace comprising 10 two bedroom flats; extension of access road serving 133-141 Brighton Road and provision of associated parking	06/07/2006	10	0.097
05/04099/P	R/O 144-190	Harrington Road	Submitted	Demolition of existing buildings; erection of terrace of 3 two storey three bedroom houses with accommodation in roofspace & 1 two storey two bedroom house, pair of two storey three bedroom semi detached houses with accommodation in roofspace & a 2/3 storey building comprising 2 three bedroom, 2 two bedroom & 1 one bedroom flats; alterations to vehicular access and provision of associated parking	27/07/2006	11	0.158

Borough Reference	Site Name/Number	Primary Street Name	Permission Status	Development Description	Permission Date	Proposed Total Residential Units	Proposed Residential Site Area
05/04366/P	4a,4-6 & R/O 8	Harwood Road	Submitted	Demolition of 4, 4a and 6 Harewood Road; erection of 2 buildings comprising 9 two/three storey four/six bedroom terraced houses and 8 two bedroom, 7 one bedroom and 1 three bedroom flats; formation of vehicular access and provision of 22 parking spaces	08/09/2006	25	0.313
05/04699/P	291 - 293	Beulah Hill	Started	Redevelopment to form 14 units (3 x 3 bed houses, 3 x 4 bed houses & 8 x 2bed flats).	13/04/2006	14	0.292
05/04704/P	Cleve Cross	Selborne Road	Started	Demolition of existing building; erection of two/ three storey building comprising 6 two bedroom and 4 one bedroom flats; formation of vehicular accesses onto Langton Way; provision of associated car and cycle parking	31/01/2006	10	0.123
05/04827/P	3 - 5	Normanton Road	Submitted	Conversion of 2 x 8 room houses to 14 x two bedroom flats.	08/02/2006	14	0.191
05/04841/P	399-403	London Road	Submitted	Redevelopment of 53 flats.	08/02/2006	53	0.251
05/05110/P	Adj. Reedham Station	Old Lodge Lane	Submitted	Erection of 2 three storey buildings comprising a total of 21 flats and provision of associated parking	25/09/2006	21	0.180
05/05394/P	1261 - 1267	London Road	Submitted	Redevelopment to form 15 flats.	16/03/2006	15	0.106
06/00136/P	16 - 18	Tennison Road	Submitted	Redevelopment of a hostel to form 30 flats.	13/04/2006	30	0.377

Borough Reference	Site Name/Number	Primary Street Name	Permission Status	Development Description	Permission Date	Proposed Total Residential Units	Proposed Residential Site Area
06/00316/P	(Former Philpotts Timber Yard) Adj 42	Epsom Road	Started	Erection of two storey block with accommodation in roof space to provide 20 one bedroom flats; formation of vehicular access and provision of integral associated parking, cycle storage and refuse bin store	05/06/2006	20	0.093
06/00456/P	Pavement Square	Lower Addiscombe Road	Submitted	Demolition of existing buildings; erection of 1 three storey and 1 four storey buildings comprising a total of 28 two bedroom and 4 one bedroom flats; erection of a terrace of 5 two storey four bedroom houses with accommodation in roofspace and a terrace of 3 two storey three bedroom houses with accommodation in the roofspace; formation of vehicular access and provision of associated parking (amended location details)	15/09/2006	40	0.387
06/00536/P	1a/2a	St. Peters Street	Submitted	Demolition of existing buildings; erection of two storey building with accommodation in roofspace comprising 12 one bedroom flats; and provision of associated parking spaces	02/11/2006	12	0.051
06/00538/P	R/O 2-8	Warminster Road	Started	Erection of 5 houses and 9 flats.	16/05/2006	14	0.242
06/00828/P	95-97	Lower Addiscombe Road	Submitted	Alterations and use of part of basement, ground, first, second and third floors as 11 studio flats; erection of two/three storey rear extension with two dormer extensions in rear roof slopes	01/06/2006	11	0.020

Borough Reference	Site Name/Number	Primary Street Name	Permission Status	Development Description	Permission Date	Proposed Total Residential Units	Proposed Residential Site Area
06/00912/P	194 And R/O 188-200	Parchmore Road	Submitted	Erection of 8 three and 2 one bed houses with associated parking.	09/08/2006	10	0.180
06/01047/P	Nursery	Purley Oaks Road	Submitted	Demolition of existing buildings; erection of 10 semi-detached three bedroom houses with detached garages; formation of access road	14/06/2006	10	0.473
06/01146/P	13-23	Whytecliffe Road South	Submitted	Demolition of existing buildings; erection of 4/5/6/7 storey building comprising uses within class A1 (retail) or A3 (restaurants and cafes) or B1 (business) on part of ground floor and 23 one bedroom and 22 two bedroom flats in remainder of building; formation of vehicular access and provision of associated parking	26/10/2006	45	0.113
06/01171/P	Granada Social Club, 793-795	London Road	Submitted	Demolition of existing buildings; erection of 3/6 storey building comprising use within Class D2 (assembly and leisure) on ground floor and 36 one bedroom and 15 two bedroom flats above; erection of 4 three bedroom houses, formation of vehicular access and provision of associated parking spaces.	29/09/2006	55	0.228
06/01173/P	175a	Brigstock Road	Submitted	Demolition of existing buildings; erection of three storey building uses within class A1 at ground floor level and 10 two bedroom and 4 one bedroom flats on upper floors; formation of vehicular access and provision of associated parking	31/10/2006	14	0.110

Borough Reference	Site Name/Number	Primary Street Name	Permission Status	Development Description	Permission Date	Proposed Total Residential Units	Proposed Residential Site Area
06/01216/P	115-119	Brighton Road	Completed	Demolition of existing buildings; erection of three/four/five storey building comprising 54 sheltered flats for the elderly, managers accommodation and associated communal facilities	17/07/2006	54	0.330
06/01352/P	251-261	Wickham Road	Started	Erection of three storey building with accommodation in roofspace comprising of 9 two bedroom and 4 one bedroom flats: formation of vehicular access onto Wickham Avenue and provision of 13 parking spaces, cycle store and bin store	24/06/2006	13	0.091
06/01748/P	Boswell House, 17	South End	Submitted	Alterations; Erection of second floor rear mansard roof extension and external staircase; conversion to form 8 two bedroom flats and 3 one bedroom flats	21/06/2006	11	0.045
06/02014/P	45	Godstone Road	Submitted	Demolition of existing building; erection of 1 three/four storey building and 1 three storey building comprising a total of 12 two bedroom and 1 three bedroom flats; extension of the highway from Greyfields Close and provision of associated parking (Alterations to planning permission 05/2104/P-increased floor area)	05/12/2006	13	0.163
06/02790/P	Land R/O	Kings Road	Submitted	Erection of 12 two storey four bedroom terraced houses with accommodation in roofspace; formation of access road and provision of twelve parking spaces-approval of conditions 1(1), 1(2) and 2.	22/08/2006	12	0.270

Borough Reference	Site Name/Number	Primary Street Name	Permission Status	Development Description	Permission Date	Proposed Total Residential Units	Proposed Residential Site Area
06/03661/P	Gilroy Court, 591-597	London Road	Submitted	Conversion of hostel into 12 two bed flats with associated parking.	04/12/2006	12	0.097
06/03940/P	4	Sylvan Road	Started	Alterations; conversion to form 4 two bedroom and 6 one bedroom flats; erection of three/four storey infill extension; formation of vehicular access and provision of associated parking	21/12/2006	10	0.124
06/04152/P	208	Pampisford Road	Submitted	Demolition of existing buildings; erection of 7 four bedroom, 6 three bedroom and 4 five bedroom terraced houses; erection of 3 three storey buildings comprising a total of 40 two bedroom flats; formation of vehicular access and provision of associated parking	21/12/2006	57	0.881