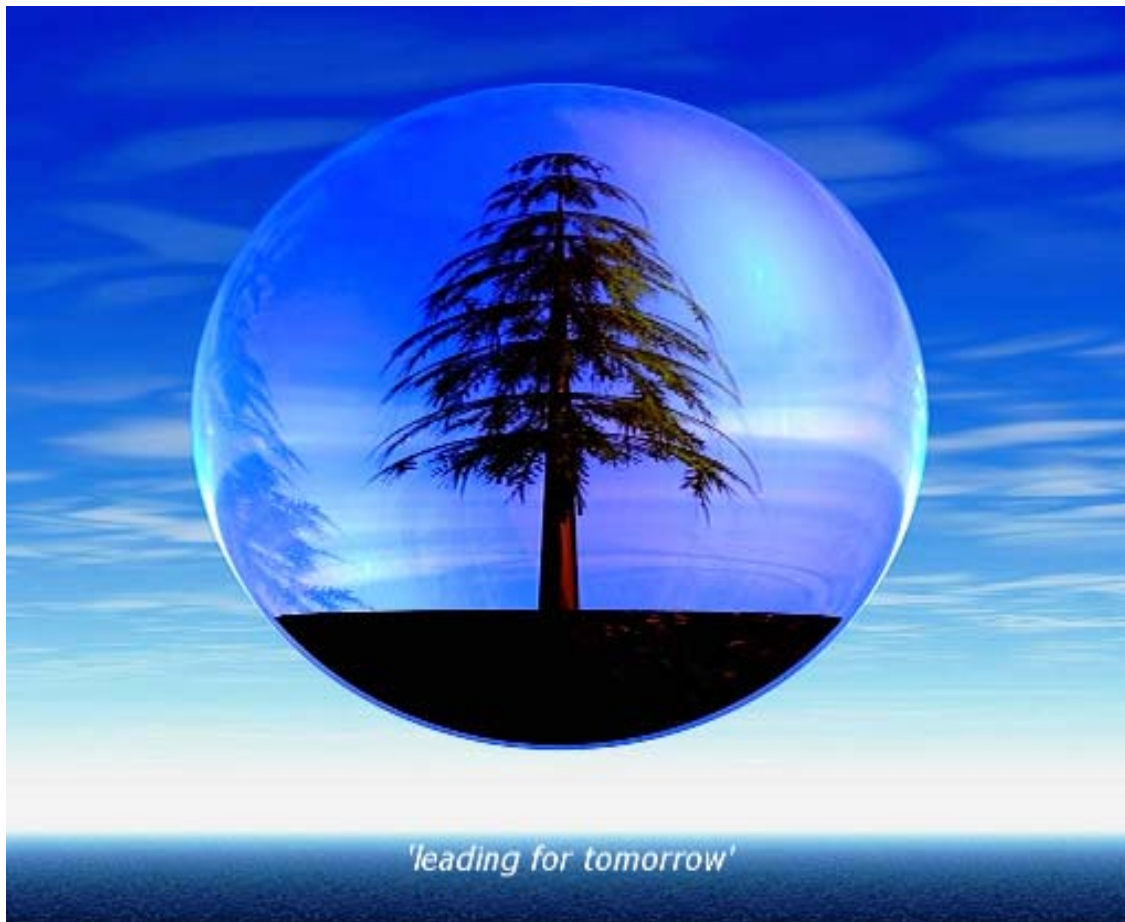


# Surrey Heath Borough Council

## Air Quality Action Plan Progress Report 2007 Part IV of the Environment Act 1995: Local Air Quality Management



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# 1 Summary

This document is our first report giving details of our progress on the actions set out in our Air Quality Action Plan 2005 further to our Air Quality Management Area. The action plan contains 51 actions, each given a timescale for achievement. We have made progress with 46 of the 51 actions, including 25 that have been completed on time.

The Plan also contains considerations and options for the Highways Agency to consider. Monitoring by them started in 2006. Initial results indicate that the modelled predictions are correct in that there is minimal exceedence at relevant exposure locations. With this in mind the Agency is unlikely to fund any major projects to solely address air quality. The Options considered by them are detailed at Appendix 1. Options 1,4,5, and 11 have been rejected by them and will not be progressed. Their monitoring of locations adjacent to the M3 will continue at least for another year.

Significant measures completed or in progress by the Agency include barrier work, junction improvements, and variable messaging.

The progress made by and involving SHBC during 2005/2006 includes the following.

- The continuous nitrogen dioxide analyser has been relocated to within the AQMA and additional passive monitors located at appropriate locations within it.
- Using liaison forums the concept of travel plans has been promoted and explained to both businesses and schools.
- An energy survey of Council buildings and a sample of residential housing stock has been completed.
- Grant funding has been applied for the purpose of initiating an energy efficiency project.
- The walking project has been initiated and the cycle network expanded.
- All our diesel vehicles now specified to be fitted with to at least Euro 4 standard.
- All new developments within the AQMA are scrutinised for the effects of and to air quality and appropriate conditions imposed.

The next progress report is due at the end of April 2008.

This report has been compiled by James Robinson of the Environmental Health Pollution Team.

## 2 Introduction

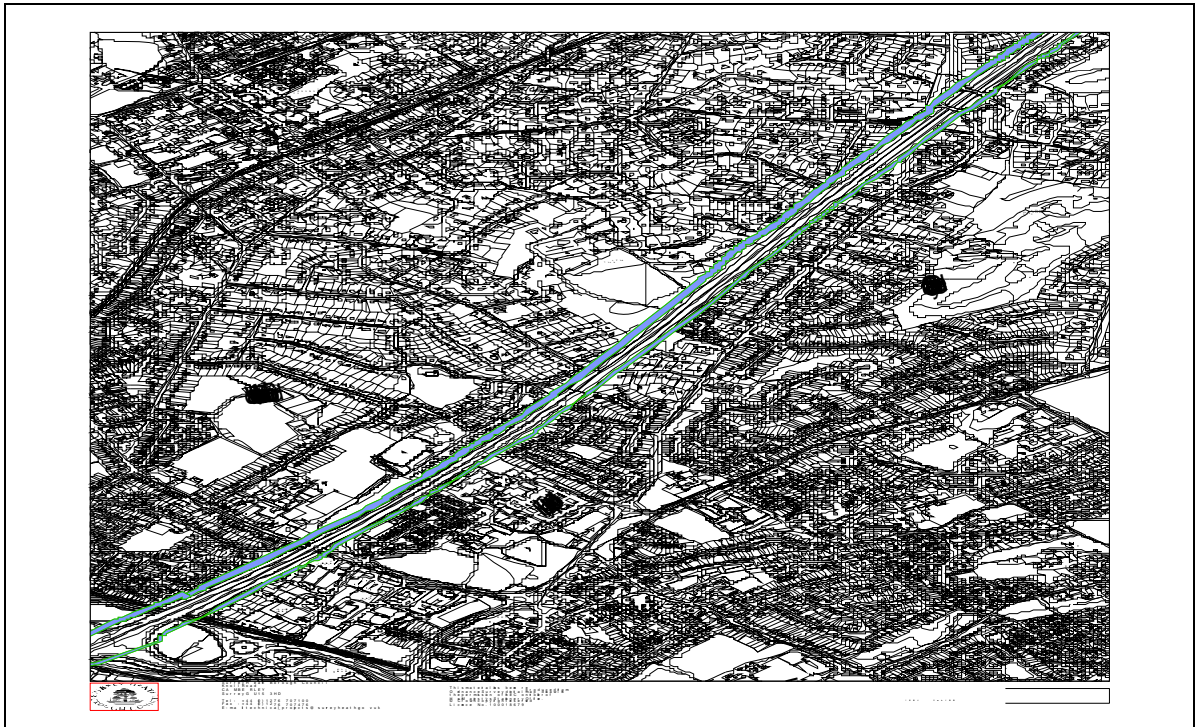
European concern over the health and environmental effects of pollution from industrial and road transport sources gave rise to the European Union Directive on Air Quality. This has been adopted by the UK in the form of the Environment Act 1995 that introduced the concept of National Air Quality Strategies.

The Environment Act 1995 introduced the Local Air Quality Management system, which requires local authorities to undertake regular review and assessment of air quality, with respect to the standards and objectives set in the Air Quality Strategy, and enacted through the Air Quality Regulations in 1997, 2000 and 2002. The statutory status of air quality objectives is that local authorities are required to demonstrate best efforts rather than strict compliance. In areas where an air quality objective is predicted not to be met by the required date, local authorities were required to establish Air Quality Management Areas and implement action plans to improve air quality.



*Photo 2: A331 approach to J4 of M3*

Surrey Heath Borough Council (SHBC) completed a Stage 3 Air Quality Review and Assessment. The conclusions of this indicated that exceedences of objectives for nitrogen dioxide (NO<sub>2</sub>) were likely along the M3 between the Frimley Road flyover and just North of the Ravenswood Roundabout (A325). As a result of this air quality review and assessment, Surrey Heath Borough Council declared an Air Quality Management Area (AQMA) in 2002 (**Figure 1**) and undertook a Stage 4 Review within this area in 2003. The Stage 4 confirmed the likelihood of NO<sub>2</sub> exceedences within the AQMA and also indicated that it should be extended in both directions along the M3.



**Fig.1** Surrey Heath Borough Council Air Quality Management Area Map featuring M3. (J4 is at bottom left, Ravenswood Roundabout at near top right of figure).

The Council was required to prepare an Air Quality Action Plan, as specified under Section 84(2) of the Environment Act 1995. In accordance with Policy Guidance LAQM.PG (03) sect. 3.36 Surrey Heath Borough Council have a requirement to submit annual action planning Progress Reports once the final action plan has been drawn up

The Air Quality Action Plan was compiled and adopted by the Council in 2005.

This report is our first annual progress report on our Air Quality Action Plan, and provides an update on original measures identified to improve levels of nitrogen dioxide in the area surrounding the M3.

## 2. Progress Report Table

Progress on the Air Quality Action Plan is reported in Table 1 below.

**TABLE 1 AQMA ACTIONS THAT LOCAL AUTHORITY CAN INFLUENCE**

ACTION	ACTION PLAN REFERENCE	RESPONSIBILITY	ORIGINAL TIMESCALE	PROGRESS	COMMENTS
	<b>DIRECT AQMA ACTIONS</b>				
1	The Council will investigate how traffic congestion and the impact of the school run upon it can be addressed through the Local Strategic Partnership	SHBC Strategy and Policy. Environmental Services	2007-2010	In progress	Partnership has looked at measures such as the walk to school week, golden and longer boot and cycling to schools to promote these issues.
2	We will work with our stakeholders to use number plate recognition to identify those vehicles using the Motorway for journeys of up to two junction's maximum between J4A and J3 with the purpose of targeting alternative travel strategies.	SHBC Highways Agency SCC	Medium 2-5 Years	Not started yet to action	Due for completion by 2010
3	We will produce an active policy and practice enabling and encouraging Surrey Heath Borough Council members and staff to work from home or away from the office base.	SHBC Strategy and Policy SHBC Environmental Services	2005-2010	In progress started in 2005	Pilot scheme started and now due for completion by 2010
	<b>HEALTH INFORMATION</b>				
4	We will collate health information and begin mapping this on to our GIS system. We will then compare the relevant information to that of air quality hotspots and the AQMA and consider any links. To be completed by August 2007.	SHBC Environmental Services	2007	In progress	Health data and profiles sought from health agencies. Attempting to break down to ward level to make relevant to AQMA.

ACTION	ACTION PLAN REFERENCE	PERSON/ ORGANISATION RESPONSIBLE	ORIGINAL TIMESCALE	PROGRESS	COMMENTS
	<b>INDIRECT AQMA ACTIONS</b>				
5	We will press for and co-operate with Government and the Surrey County Council over improvements at J3.	County, Highways SHBC.	December 2007	Complete	Parapet replacement completed Dec 06. Assists cyclists and horse riders and prevents congestion. Highways Agency traffic officers in post to manage incidents leading to flow breakdown. Improved filtering and lane markings at junction completed 2005/6
6	We will work with the Highways Agency, neighbouring local authorities and Surrey County Council in order to consider schemes in more detail and take note of findings from Multi-Modal Studies that reference air quality across the Borough and within the AQMA.	County, Highways SHBC.	Ongoing	In progress	Continued support for Highways Agency multi modal studies and its 10 recommendations. Ref. Thames Valley Journey Time Quality and Reliability Study.
7	We will consider the small extension of the current AQMA as recommended in Stage 4. We will meet with the Highways Agency to discuss the possibilities presented by implementation of Actions 6 and 8 and be in a better position to consider Option 6.	Highways SHBC.	March 2006	Completed 06	AQMA covers specified area. Continue to monitor within and around perimeter of AQMA.

ACTION	ACTION PLAN REFERENCE	PERSON/ ORGANISATION RESPONSIBLE	ORIGINAL TIMESCALE	PROGRESS	COMMENTS
8	We will actively support the larger National and South East schemes that may improve air quality along the M3 and promote a modal shift to other forms of transport.	County, Highways SHBC.	2007 and ongoing	In Progress	See Action 6. Also promoted Travel Plans in conjunction with Surrey County Council.
9	The Council will work with its contractors to encourage the accelerated use of cleaner vehicle technologies and fuels within its fleet.	Engineering Services Environmental Services Waste Management	2007-2010	Partially completed Refuse contract documents make reference to use of latest Euro specified engines including particulate filters.	Work needed to have an integrated policy on vehicle fuel use.
10	The Council will seek to introduce a policy of encouraging the purchase of cleaner fuelled vehicles in its own provided vehicle fleet.	Corporate Services	2007-2010	In progress	Where vans purchased dual fuel preferred. Work underway on limiting engine size.



ACTION	ACTION PLAN REFERENCE	PERSON/ ORGANISATION RESPONSIBLE	ORIGINAL TIMESCALE	PROGRESS	COMMENTS
	<b>TRAFFIC REDUCTION SCHEMES</b>				
11	The Council will support the Surrey County Council with its aims to achieve traffic reduction by improving the infrastructure needed to encourage sustainable travel and reduce unnecessary car use.	SCC/ SHBC	2007-2010	In progress	Local Transport Plan progress report details improvements to bus and rail services, walking and cycling, travel planning, safety, traffic management and maintenance. We have contributed to a number of local schemes in support. Introduction of decriminalised parking reduced potential for congestion.
12	We will produce and distribute leaflets and advice to individual drivers on how emissions can be reduced through better driving techniques and choice of vehicle/fuels by August 2006.	SHBC and Customer Contact Centre	August 2006	In Progress	Insufficient funds to progress. Bid for grant submitted to DEFRA in 2006 and 2007. Link to fuel efficient motoring entered into website. Link to fuel efficient motoring information entered into website.

ACTION	ACTION PLAN REFERENCE	PERSON/ ORGANISATION RESPONSIBLE	ORIGINAL TIMESCALE	PROGRESS	COMMENTS
	TRAFFIC REDUCTION AND LAND USE PLANNING				
13	We will make proposals for more specific policies on air quality to be developed and introduced into the Local Development Scheme by December 2007.	Environmental Services Built Environment Land Use	2007-2010	In progress	Proposals under discussion with planners
14	We will complete an Air Quality Strategy for adoption by Surrey Heath Borough Council by December 2006.	Environmental Services Built Environment	Dec 2006	Incomplete	Due for completion April 08
15	We will collect the following Sustainability and Environmental Assessment data; Number of days in year when air quality objectives within the AQMA are not met; Ascertain the number of people living and working within the AQMA; Calculate the length of cycle tracks in Borough; Calculate the safe route to school implementation uptake.	Environmental Services	2007 and - ongoing	In Progress	Data on air quality and nos. people working/living and safe route to school uptake obtained. Cycle length being calculated.

ACTION	ACTION PLAN REFERENCE	PERSON/ ORGANISATION RESPONSIBLE	ORIGINAL TIMESCALE	PROGRESS	COMMENTS
16	We will continue to work with the built environment department with regard to new developments and ensure that air quality is taken into account when located in or close to the AQMA.	SHBC Built Environment	Dec 2005	Complete	Any new or proposed development within AQMA identified and appropriate conditions recommended.
17	We will add the exact location of the AQMA to the site constraints database used by the built environment to ensure that any developments in or close to the AQMA are flagged up for further consideration by December 2005.	Environmental Services	Dec 2005	Complete	Built Environment aware of location
18	We will continue to look for evidence that developers have taken appropriate steps to minimise any increases in air pollution regardless of their location. This will include an assessment of the air quality implications where appropriate.	Environmental Services Built Environment	2005 and Ongoing	Complete	Link with planning established to identify those applications likely to contribute to air pollution.

ACTION	ACTION PLAN REFERENCE	PERSON/ ORGANISATION RESPONSIBLE	ORIGINAL TIMESCALE	PROGRESS	COMMENTS
	<b>WORKPLACE AND SCHOOL TRAVEL PLANS</b>				
19	We will ensure that all new developments within the AQMA will be required to have travel plans if planning permission is granted.	Built Environment	2007 and Ongoing	Complete	Not expected to be new development large enough to warrant a travel plan within the AQMA. Procedures in place to identify any such development.
20	We will encourage businesses to adopt travel plans through the promotion of sustainability issues at regular breakfast meetings and hope to encourage their employees to adopt more sustainable travel.	Customer Relations Development	2007 and Ongoing	Complete	Scheme promoting car share and travel plans promoted at breakfast business meetings. Car share information distributed throughout Council. Car Share and travel scheme information sent with Council Business Tax bills.
21	We will encourage appropriate businesses, through promotion and existing business breakfasts, to implement measures within the Instant Travel Plan.	SCC/SHBC	Dec 2007	Complete	See Action 20
22	The Council will continue to extend the travel group concept to other businesses in the Borough.	SCC/SHBC	Dec 2007	Complete	See Action 20

ACTION	ACTION PLAN REFERENCE	PERSON/ ORGANISATION RESPONSIBLE	ORIGINAL TIMESCALE	PROGRESS	COMMENTS
23	We will continue to support Surrey County Council to provide advice, encouragement and support to businesses in the development of travel plans and in having dialogue on transport issues using commercial interfaces such as the business breakfast seminars.	SCC/SHBC	Dec 2007 and Ongoing	Complete	See Action 20. Have worked with SCC to promote scheme.
24	The Council will continue working with the County Council and local schools to provide encouragement and support to increasing the uptake of safer routes to schools schemes, with the aim of all schools to develop travel plans by 2011.	SCC/SHBC	Dec 2007 and Ongoing	Complete	Work underway and continuing in conjunction with SCC.
<b>PROMOTING ALTERNATIVE MODES OF TRANSPORT</b>					
25	The Council will improve co-ordination and use of community transport.	SHBC SCC	2007 and ongoing	In progress. Strategy 2006-2011 by LSP being developed. Consultation due in Autumn 2007.	Insurance cover restricts use of vehicles. Drivers not qualified to transport general public.
26	The Council will continue to give its full backing and support to the Car-share scheme. Target will be to increase sign up to the scheme by April 2007.	SCC/HCC car share scheme	2007	Complete	Campaign carried out 2006/7. See Action 20.
27	We will undertake a staff survey to establish modes of transport used and distances travelled by Surrey Heath Borough Council employees from home to work.	SHBC Environmental Services	June 2006	Complete	Survey carried out. Will require further work to make more specific and link to home working action.

ACTION	ACTION PLAN REFERENCE	PERSON/ ORGANISATION RESPONSIBLE	ORIGINAL TIMESCALE	PROGRESS	COMMENTS
28	The Council will review its car allowance/loan/provision schemes in order to identify and implement reforms that encourage the use of the cleanest and most fuel efficient vehicles.	SHBC Strategy and Policy/Corporate Services	2007 and ongoing	In progress	Review in progress.
29	The Council will continue to ensure that its own employee's vehicle fleet is progressively greened by carrying out the following initiatives; Ensuring all vehicles are maintained and serviced regularly; Ensure that 5% of the Surrey Heath vehicle fleet is dual fuel; Ensure that all diesel engined vehicles are fitted with at least Euro Standard 4 engines.	SHBC Customer Services	2007 and ongoing	Complete	Provided fleet serviced and maintained to manufacturers specifications. Van fleet is dual fuel where appropriate. New large vehicles specified to at least Euro 4 standard.
30	The Council will continue to progress the Leisure Card programme to encourage alternative travel to our leisure centres	SHBC Customer Services	2007	In progress	Leisure services contractor undertaking feasibility study.

ACTION	ACTION PLAN REFERENCE	PERSON/ ORGANISATION RESPONSIBLE	ORIGINAL TIMESCALE	PROGRESS	COMMENTS
31	We will work with Surrey County Council to encourage meeting the PSA targets for bus reliability, and encourage further QBP.	SCC	2007 Ongoing	In Progress	RTPI (suretime) introduced. Articles in community newsletter give local bus routes and timetables. Web link to SURELINE established
32	The Council will promote the uptake of LPG by offering a reduction of 25% in Private Hire and Hackney Carriage vehicle licence fees upon the conversion to LPG fuel.	SHBC Customer Services	2007 - 2010	Considered and rejected	Majority of hire vehicles diesel engined therefore cannot be converted. Not expected to be successful as no local refuelling station. No support in reducing licensing income. Proposal will be removed.
33	The Council will positively feed into the development of the Pilot Walking Project.	SHBC Customer Services	2007 and ongoing	Complete	Organised walks available to public at least weekly. Walking strategy completed by LSP.
34	The Council will positively feed into the development the proposed cycle routes and work with the County Council to expand the network.	SCC/SHBC Customer Services	2007	Complete	SHBC contributed to further development of cycling route leaflets with SCC also expanding cycling information on website. Also completed the programme of cycle rack installation. Started programme of walks and talks and safe cycling routes enabled by partner Councils and community groups
35	Surrey Heath Borough Council will support the Golden Boot and Longer Boot campaigns run by Surrey County Council as part of the Safe Routes to Schools project. Specific attention will be given to schools close to the AQMA and those that have the worst problem.	SCC SHBC Environmental Services Police/PTA	Jan 2007	Complete	Ongoing programme of cycling proficiency provision in primary schools. SHBC has been involved in the provision of walk to school week and campaigns such as golden boot. Visual audits of pedestrian routes to school completed.

ACTION	ACTION PLAN REFERENCE	PERSON/ ORGANISATION RESPONSIBLE	ORIGINAL TIMESCALE	PROGRESS	COMMENTS
36	Using the new Surrey Heath Customer Contact Centre we will expand our promotion of the reporting of smoky vehicles with the introduction of new vehicle emission watch leaflets with freepost envelopes.	SHBC Customer Services	Dec 2006	Complete	Complaints forwarded to relevant Agency. Grant aid applied for in 2006 to produce leaflets. Refused grant but reapplied 2007.
	<b>MONITORING WITHIN THE AQMA</b>				
37	We will expand our monitoring network to incorporate a new continuous monitoring site for Nitrogen Dioxide, to be installed within the AQMA by August 2005.	SHBC Environmental Services	August 2005	Complete	Continuous monitor positioned in 2005. Additional passive monitors located in AQMA 2006
	<b>ACTIONS TO REDUCE EMISSIONS FROM INDUSTRIAL AND DOMESTIC SOURCES</b>				
38	We will continue to provide comprehensive control over Permitted processes.	SHBC Environmental Services	2007 and ongoing	Complete and ongoing	None likely to affect AQMA but effects prevention of other air borne pollution within Borough
39	The Council will continue investigate complaints about nuisance, and monitor air quality.	SHBC Environmental Services	2007 and ongoing	Complete	Passive and continuous monitoring of pollutants.



ACTION	ACTION PLAN REFERENCE	PERSON/ ORGANISATION RESPONSIBLE	ORIGINAL TIMESCALE	PROGRESS	COMMENTS
40	We will provide improved information and advice to residents and companies in the area about problems caused by bonfires, and enforcement action for persistent offenders who break the Clean Air Act and Environmental Protection Act. We will also encourage residents to compost waste rather than burning it on bonfires.	SHBC Environmental Services	2007 and ongoing	Complete	Started green waste club. Bonfire information leaflet produced. Promotion of composting carried out.
41	We will continue to ensure that the sale and use of authorised fuels is encouraged in the Air Quality Management Area.	SHBC Environmental Services	2007	Complete	Survey undertaken of retail outlets surrounding AQMA. Continued monitoring of open fire use from residences within AQMA.
	<b>ENERGY/HEATING</b>				
42	The Council already has a policy in its Development Framework to allow the development of renewable energy projects. We will work with our utility partners to encourage 1 renewable energy project in the borough by March 2008.	Sustainability/ SHBC Environmental Services	2008	In progress	Funding for project sought from DEFRA 2007.

ACTION	ACTION PLAN REFERENCE	PERSON/ ORGANISATION RESPONSIBLE	ORIGINAL TIMESCALE	PROGRESS	COMMENTS
43	The Council will continue to monitor the efficiency of its housing stock and council buildings using the standard assessment procedure (SAP) and try to improve the rating wherever possible.	SHBC Environmental Services	2007	Complete	Energy Survey of council buildings undertaken May 2007. Survey of residential housing stock undertaken 2006/7.
44	The Council will develop an affordable Warmth Strategy and begin implementation by Sept 2005 to increase energy efficiency in households on low incomes and so reduce CO2 emissions by promoting alternative methods of heating such as solar panels and wind turbines.	SHBC Environmental Services	Sept 2007 - 2010	In Progress	Awaiting reports carried out as a result of 43.
45	We will update and review the Energy Conservation Strategy and the Fuel Poverty Report by May 2006.	SHBC Environmental Services	May 2006	Incomplete	Due to lack of staff we have been unable to progress this. Needs to be put back to 2010
46	We will apply for Grant funding for an energy efficiency project. Target date December 2008.	SHBC Environmental Services	Dec 2008	In Progress Grant funding applied for – refused 2006	Reapplied 2007

ACTION	ACTION PLAN REFERENCE	PERSON/ ORGANIS ATION RESPONSIBLE	ORIGINAL TIMESCALE	PROGRESS	COMMENTS
47	In association with our energy partners we will produce a 'sustainable design guide', promoting high levels of energy efficiency. Target date January 2006.	SHBC Environmental Services	Jan 2006	In Progress	Application made for grant to progress this item made in 2006 and 2007. Energy saving day event undertaken in 2007.
48	We will work with our energy partners to encourage the installation of loft insulation by increasing related publicity via amongst other channels our new customer contact centre.	SHBC Environmental Services	Jan 2007	Complete	Website has been updated to list partners and provide advice.
49	We will expand the Councils website to include data on daily air pollution levels and look to provide a display of real time monitoring in the customer contact centre.	SHBC Environmental Services	December 2007 - 2010	In progress Grant applied for 2007	Grant applied for to provide real time displays of air pollution levels in public areas. Grant applied for in 2006 but refused.
50	We will produce articles for inclusion in Heathscene that promotes sustainable travel and gives news on transport issues including regular updates on air quality.	SHBC Environmental Services/ Customer Relations	Dec 2007 - 2010	In progress	We have put public transport routes and times into editions of the local community newsletter.

ACTION	ACTION PLAN REFERENCE	PERSON/ ORGANISATION RESPONSIBLE	ORIGINAL TIMESCALE	PROGRESS	COMMENTS
51	With our partners we will expand the content of the Blackwater Valley Air Quality website to distribute information on air quality data and issues.	SHBC and Blackwater Valley Partnership	June 2008 - 2010	None present at	Lack of resources amongst member local authorities has resulted in lack of support throughout 2006 and 7. Will look to regain momentum in 2008.

# 3. INTERPRETATION

3.1 We have made progress or completed all 25 actions to be achieved in the short term.

A summary of our progress on the most important actions is shown in Box 1 below.

**Box 1** Progress with short term actions (Less than 2 years from 2005)

- We have ensured that the Air Quality Management Area covers the area identified as exceeding the air quality guidelines and expanded our monitoring within and around it.
- We ensure that proposed schemes within the AQMA are assessed for air quality impact.
- We have initiated the collection of health and other sustainability/environmental data for comparison of disease within the AQMA.
- We continue to support the work of Surrey County Council and the Highways Authority to improve congestion busting schemes around Junction 3 and 4 of the M3 and promote a modal shift to other forms of transport.
- Working with Surrey County Council we have encouraged businesses to adopt travel plans by promotion at a series of business breakfasts.
- We continue to work with stagecoach and the bus operators to improve and increase bus travel.
- We have improved bus facilities in the borough by working with our partners through the Quality Bus Partnership.
- We have undertaken an energy use survey of Council buildings and of residential properties within the Borough.
- We continue to work with our partners to promote schemes in primary schools that replace car use and encourage walking/ use of cycles.
- We have been involved in cross-borough initiatives in the Surrey Cycle Network to promote cycling.
- We have promoted the use of less-polluting fuels in our vehicles and on the use of cleaner engines.
- The Highways Agency has completed improvements at Junction 4a, 4 and 3 as well as completing drainage improvements and barrier work between J4a and 3.

3.2 As well as the short term actions we have also made significant progress in many of the medium term actions. Some of the most important progress is listed in box 2 below.

**Box 2 Important progress**

- We monitored air quality in 2005/6/7, collecting more than 95% and 97% of available information at our monitoring sites.
- We have initiated policies to encourage staff and members to work without using their cars.
- Specifications for the waste contract make reference to Euro 4 engined vehicles minimum.
- We have applied for grant funding to initiate development of renewable energy projects.
- The Highways Agency continues to consider route management as part of its multi modal studies.

3.3 The completion date for some of the actions has passed with only limited progress being achieved. In addition some actions are ongoing, but only limited progress has been made. These are shown in Box 3 below.

**Box 3 Actions with some progress**

- We will improve co-ordination and use of community transport.  
We will produce and distribute leaflets and advice to individual drivers on how emissions can be reduced through better driving techniques and choice of vehicles/fuels.
- We will expand our promotion of the reporting of smoky vehicles with the introduction of new vehicle emission watch leaflets with freepost envelopes
- We will undertake a staff survey to establish modes of transport used and distances travelled by Surrey Heath BC employees from home to work.
- The Council will review its car allowance /loan provision schemes in order to identify and implement reforms that encourage the use of the cleanest and most fuel efficient vehicles.
- The Council will continue to progress the Leisure Card programme to encourage alternative travel to our leisure centres.
- The Highways Agency looked at NO2 levels in more detail and has rejected a number of proposals on a cost/benefit basis.

3.4 The completion date for some of the actions has passed without any progress. Also, some actions are ongoing but we have not made any progress so far or are unlikely to make progress. These are shown in box 4 below.

**Box 4** Actions with no progress

- We will complete an air quality and an affordable warmth strategy.
- We will promote the uptake of LPG by offering a reduction of 25% in Private Hire and Hackney Carriage vehicle licensing fees upon conversion to LPG fuel.
- We will update and review the Energy Conservation Strategy and the Fuel Poverty Report.

The strategy for dealing with these no progress items is detailed within the relevant action box within Table 1.

**Appendix 1 DIRECT AQMA OPTIONS UNDER CONTROL OF HIGHWAYS/OTHER AGENCIES**

<i>ACT ION</i>	<i>ACTION PLAN REFERENCE</i>	<i>COST EFFECTIVENESS</i>	<i>PERSON/ORGANISATION RESPONSIBLE</i>	<i>POSITIVE EFFECT ON PEOPLE IN AQMA</i>	<i>PEOPLE POSITIVELY AFFECTED BY OPTION IN BOROUGH</i>	<i>DATE TO BE ACHIEVED</i>	<i>AIR QUALITY IMPROVEMENT</i>	<i>OTHER POSITIVE IMPACTS</i>	<i>COMMUNITY PLAN OBJECTIVE OR IN PLACE</i>	<i>COST EFFECTIVENESS</i>	<i>RANK</i>	<i>PROGRESS TO DATE</i>	<i>COMMENTS</i>
	<b>AQMA OPTIONS</b>												
<b>OPTION 1</b>	Tunnel	£££££	Highways Agency	√√√ √	√√√	HA would implement	Low Would require abatement but likely to be positive	Enhanced Environment Noise Reductions Partially effective only where M3 in cutting	No	17	9	Rejected by Highways Agency. Exceedence does not warrant expenditure.	Will not be progressed in foreseeable future.
<b>OPTION 2</b>	Motorway Speed Strategy	£££££	Highways Agency	√√√√	√	HA would implement	Moderate See Section 5	Noise Safety	No	10	4	Pilot carried out 2006 as a result of the M3 roadworks. Also variable speed control being considered by Highways Agency	Results being assimilated
<b>OPTION 3</b>	M3 J3,4, 4A Layout Changes	££££	Highways Agency/ SCC/HC C	√√√	√√	2007 J3 other HA to implement	Moderate Likely to have a positive effect on the AQ area	Noise Safety Efficiency	No	9	3	Complete	Improvements carried out throughout 2006/7



<b>ACT ION</b>	<b>ACTION PLAN REFERENCE</b>	<b>COST EFFECTIVENESS</b>	<b>PERSON/ORGANISATION RESPONSIBLE</b>	<b>POSITIVE EFFECT ON PEOPLE IN AQMA</b>	<b>PEOPLE POSITIVELY AFFECTED BY OPTION IN BOROUGH</b>	<b>DATE TO BE ACHIEVED</b>	<b>AIR QUALITY IMPROVEMENT</b>	<b>OTHER POSITIVE IMPACTS</b>	<b>COMMUNITY PLAN OBJECTIVE OR IN PLACE</b>	<b>COST EFFECTIVENESS</b>	<b>RANK</b>	<b>PROGRESS TO DATE</b>	<b>COMMENTS</b>
<b>OPT ION 4</b>	Crawler Lane between J4 and 3	££££	Highways Agency	Not Viable	√√√	Not Viable	None; likely to be worse	Might increase congestion	No	19	11	Not viable	Will not be progressed
<b>OPT ION 5</b>	Compulsory Purchase Orders	£££££	DEFRA/S HBC	√√	√	Unable to specify	None	Occupants may/may not wish to move	No	23	12	Monitoring at worst exposure sites in progress	Results 2006 indicate CPO unnecessary. Unlikely to be progressed.
<b>OPT ION 6</b>	Reductions in Traffic Volume	£££	Highways Agency/S HBC/SCC	√√√ √	√√√ √	Ongoing	High	Safety Noise	Linked	8	2	In Progress. Is part of larger national campaign	
<b>OPT ION 7</b>	Road Charging/Tolls	££££	Highways Agency/DEFRA	√√√ √	√√√ √	Unable to specify	Moderate but unable to specify	Noise reduction Safety	No	12	6	Completed. Considered by national government 2006	Not yet planned for M3
<b>OPT ION 8</b>	Enhanced Screening	££££	Highways Agency	√√√ √	√√	Unable to specify	Low	Noise reduction	No	14	8	Barrier work completed	Noise reduction issue but may improve air quality.
<b>OPT ION 9</b>	Variable Messaging	££££	Highways Agency/S HBC/SCC	√√√	√√√ √	Unable to specify	Moderate	Steady Flows Safety	Linked	11	5	Overhead and mobile signage provision in progress	Not yet initiated in SHBC part of M3
<b>OPT ION 10</b>	High Occupancy Vehicle Lanes	££££	Highways Agency	√√	√√√	Ongoing	Low	Safety Noise	No	13	7	Completed. Considered by National Government 2006	Has been considered by HA for J2-3.

<i>ACT ION</i>	<i>ACTION PLAN REFERENC E</i>	<i>COST EFFE CTIVE NESS</i>	<i>PERSON/OR GANISATIO N RESPONSIB LE</i>	<i>POS ITIV E EFF ECT ON PEO PLE IN AQ MA</i>	<i>PEO PLE POS ITIV ELY AFF ECT ED BY OPT ION IN BOR OUGH</i>	<i>DAT E TO BE ACH IEV ED</i>	<i>AIR QUALIT Y IMPROV EMENT</i>	<i>OTH ER POS ITIV E IMP ACT S</i>	<i>COMMUN ITY PLAN OBJECTI VE OR IN PLACE</i>	<i>COST EFFECTIVENESS</i>	<i>R A N K</i>	<i>PROGRESS TO DATE</i>	<i>COMMENTS</i>
<i>OP TI ON 11</i>	Reduce General Background Levels	££££	DEFRA/SH BC	√√	√√ √√	Una ble to spe cify	Negligi ble in AQMA	Ben efits entir e Boro ugh	Yes	18	10	Considered not viable	Will not be progressed
<i>OP TI ON 12</i>	Support larger national studies	£	SHBC	Una ble to spe cify	Una ble to spe cify	Ong oing	High Benefici al in longer term	Unk now n	Yes	0	1	In Progress HA began national NO2 monitoring 2006. Is part of larger SE study	Likely to consider schemes nationally. Is implementing multi-modal studies.