The London Borough of Hillingdon



Progress Report, 2013



London Borough of Hillingdon LAQM Progress Report 2013

Bureau Veritas Air Quality and EMRC
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Executive Summary

Part IV of the Environment Act 1995 places a statutory duty on local authorities to review and assess the air quality within their area and take account of Government Guidance when undertaking such work. This Annual Progress Report is a requirement of the Fifth Round of Review and Assessment and is a requirement for all local authorities. The Report has been undertaken in accordance with the Technical Guidance LAQM.TG (09) and associated tools.

This Annual Progress Report considers all new monitoring data and assesses the data against the Air Quality Strategy objectives. It also considers any changes that may have an impact on air quality.

The results from both monitoring and assessment of sources in the Borough indicate that outside of the existing AQMA air quality objectives at locations of relevant exposure are being met.

There is no need to carry out any detailed assessments at this time. Recommended actions are:

- Continue to monitor air pollution across the Borough;
- Investigate what caused the 10μg/m³ increase in concentrations at Hillingdon South Ruislip continuous monitor;
- Continue to implement action plan measures; and
- Proceed to the Annual Progress Report 2014.

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Appendices

Bureau Veritas Air Quality

London Borough of Hillingdon

Appendix A: Quality Assurance / Quality Control (QA/QC) Data

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1 Introduction

1.1 Description of Local Authority Area

Hillingdon is, geographically, the second largest local authority in London and has approximately 250,000 residents. Parts of the Borough to the north of the A40 are semi-rural, with Ruislip as the district centre. The south of the Borough is more densely populated, urban in character, and contains the metropolitan centre of Uxbridge and the towns of Hayes and West Drayton. It also contains numerous important transport links. As well as being home to Heathrow Airport the Borough is crossed by the M4 and the A40 and bordered to the west by the M25 and to the east by the A312, attracting traffic into the Borough and encouraging traffic to pass through it. They therefore generate a significant air pollution burden for residents.

1.2 Purpose of Progress Report

This report fulfils the requirements of the Local Air Quality Management (LAQM) process as set out in Part IV of the Environment Act (1995), the Air Quality Strategy (AQS) for England, Scotland, Wales and Northern Ireland 2007 and the relevant Policy and Technical Guidance documents. The LAQM process places an obligation on all local authorities to regularly review and assess air quality in their areas, and to determine whether or not the air quality objectives are likely to be achieved. Where exceedences are considered likely, the local authority must then declare an Air Quality Management Area (AQMA) and prepare an Air Quality Action Plan (AQAP) setting out the measures it intends to put in place in pursuit of the objectives.

Progress Reports are required in the intervening years between the three-yearly Updating and Screening Assessment (USA) reports. Their purpose is to maintain continuity in the LAQM process.

They are not intended to be as detailed as USA Reports, or to require as much effort. However, if the Progress Report identifies the risk of exceedence of an AQS Objective, the Local Authority (LA) should undertake a Detailed Assessment immediately, and not wait until the next round of Review and Assessment.

1.3 Air Quality Objectives

The AQS objectives applicable to LAQM **in England** are set out in the Air Quality (England) Regulations 2000 (SI 928) and The Air Quality (England) (Amendment) Regulations 2002 (SI 3043), and are shown in Table 1. This table shows the objectives in units of microgrammes per cubic metre $\mu g/m^3$ (milligrammes per cubic metre, mg/m^3 for carbon monoxide) with the number of exceedences in each year that are permitted (where applicable).

Table 1 - Air Quality Objectives included in Regulations for the Purpose of LAQM in England

Pollutant	Air Quality	Date to be		
Poliulani	Concentration	Measured as	achieved by	
Benzene	16.25 μg/m ³	Running annual mean	31.12.2003	
	5.00 μg/m ³	Annual mean	31.12.2010	
1,3-Butadiene	2.25 μg/m ³	Running annual mean	31.12.2003	
Carbon Monoxide	10 mg/m ³	Running 8-hour mean	31.12.2003	
1	0.50 μg/m ³	Annual mean	31.12.2004	
Lead	0.25 μg/m ³	Annual mean	31.12.2008	
Nitrogen Dioxide	200 µg/m ³ not to be exceeded more than 18 times a year	1-hour mean	31.12.2005	
	40 μg/m ³	Annual mean	31.12.2005	
Particulate Matter (PM ₁₀) (gravimetric)	50 μg/m³, not to be exceeded more than 35 times a year	24-hour mean	31.12.2004	
(3	40 μg/m ³	Annual mean	31.12.2004	
	350 µg/m³, not to be exceeded more than 24 times a year	1-hour mean	31.12.2004	
Sulphur Dioxide	125 µg/m³, not to be exceeded more than 3 times a year	24-hour mean	31.12.2004	
	266 µg/m ³ , not to be exceeded more than 35 times a year	15-minute mean	31.12.2005	

1.4 Summary of Previous Review and Assessments

Detailed assessment of air quality in Hillingdon has been undertaken for over 10 years following guidance from National Government.

In summary, an AQMA was declared in 2003 due to exceedences of the NO₂ annual mean AQS objective. The AQMA covers the A40 corridor, the Chiltern-Marylebone railway line and all parts of the Borough south of them. Problems are most severe around Heathrow Airport and the major road network that goes through the Borough, reflecting the largest sources of NO_x emissions within the AQMA. An Action Plan, showing how Hillingdon London Borough Council (the Council) intended to tackle these problems, was issued in 2004. This contains a series of 8 packages that address emissions from traffic, Heathrow Airport, industry, existing housing, new developments, and so on.

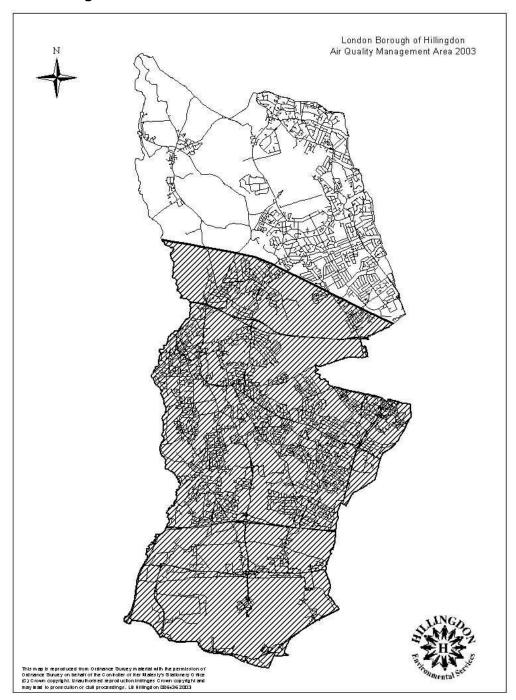
Annual reviews of air quality have shown that levels of NO₂ have not changed significantly over recent years. There is however a good record of implementation of the Action Plan measures in areas for which the Council has control. An obvious problem arises because the most important sources in the Borough (the airport and the major road network) are not under the Council's control.

Table 2 - Summary of Past Review and Assessment

Round of Assessment	Conclusions				
Round 1	Modelling and monitoring indicated that the annual mean NO ₂ and 24-hour mean PM ₁₀ would exceed the objectives. In May 2001, an AQMA was declared for these two objectives. However, further modelling indicated that the objectives for PM ₁₀ were being met. Therefore, the original AMQA was revoked and a new AQMA declared only for NO ₂ . This AQMA was extended to cover all of the A40 corridor and the Chiltern- Marylebone Railway line.				

Round of	Conclusions					
Assessment	Conclusions					
	The 2003 USA concluded that exceedences of the NO ₂					
	annual mean AQS objective were still occurring and high					
	concentrations of PM ₁₀ were confined to busy traffic					
Round 2	corridors where there was no exposure so there was no					
	requirement for a Detailed Assessment.					
	In 2004 the Council published the final version of the Air					
	Quality Action Plan.					
	Reporting concluded exceedences of the NO ₂ annual mean					
Round 3	AQS objective were still occurring within the existing AQMA					
Round 3	Outside of the AQMA no exceedences for any pollutants					
	were recorded. No Detailed Assessments were required.					
	Reporting concluded exceedences of the NO ₂ annual mean					
	AQS objective were still occurring within the existing AQMA.					
Round 4	Outside of the AQMA no exceedences for any pollutants					
Nouria 4	were recorded. No Detailed Assessments were required.					
	A study of pollutants around Heathrow indicated little or no					
	improvement in concentrations over the past few years.					
	The USA 2012 concluded exceedences of the NO ₂ annual					
	mean AQS objective were still occurring within the existing					
Round 5	AQMA. Outside of the AQMA no exceedences for any					
	pollutants were recorded. No Detailed Assessments were					
	required.					

Figure 1 - Hillingdon AQMA



2 New Monitoring Data

2.1 Summary of Monitoring Undertaken

2.1.1 Automatic Monitoring Sites

There were 10 operational automatic continuous monitoring sites in the London Borough of Hillingdon in 2012.

Hillingdon 1 and Hillingdon 3 are part of the London Air Quality Network (LAQN).London Heathrow, Heathrow Oaks Road and Heathrow Green Gates sites are part of the Heathrow airport monitoring network. London Sipson, Hillingdon Hayes and London Harmondsworth are part of the Council's own monitoring network; London Harlington and and London Hillingdon are managed by the AURN. Details of QA/QC of the monitoring stations can be found in Appendix A.



Figure 2 - Map of Automatic Monitoring Sites

Table 3 - Details of Automatic Monitoring Sites

Site Name	Site Type		rid Ref ,Y)	Pollutants Monitored	In AQMA?	Relevant Exposure? (Y/N with distance (m) to relevant exposure)	Distance to kerb of Nearest Road (N/A if not applicable)	Does this Location represent Worst-case Exposure?
London Heathrow LHR2	Airport	508600	176700	NO ₂ , PM ₁₀ , PM _{2.5} (TEOM)	Yes	N	N/A (inside the airport)	No
London Hillingdon	Suburban	506951	178605	NO ₂ , O ₃	Yes	Y	3m (30m from M4)	Yes
Hillingdon 1 – South Ruislip	Roadside	510857	184917	NO ₂ , PM ₁₀ (TEOM)	Yes	Yes (14m)	2.5m	Representative of exposure on this road
Hillingdon 3 – Oxford Avenue	Roadside	509557	176994	NO ₂ , PM ₁₀ (TEOM)	Yes	Yes (8m)	18m to A4 Bath Road (5m to Oxford Avenue)	Yes (for emissions from Bath Rd and Airport)
London Harlington	Airport	508295	177800	CO, NO ₂ , O ₃ , PM ₁₀ PM _{2.5} (TEOM)	Yes	No	8m	Background

Site Name	Site Type		rid Ref ,Y)	Pollutants In Monitored AQMA?		Relevant Exposure? (Y/N with distance (m) to relevant exposure)	Distance to kerb of Nearest Road (N/A if not applicable)	Does this Location represent Worst-case Exposure?
Hillingdon Sipson	Urban background	507325	177282	NO_2	Yes	Yes	9m from nearest residential facade	Yes
London Harmondsworth	Roadside	505561	177661	NO ₂ , PM ₁₀ (BAM)	Yes	Y(20m)	1m	Yes
Heathrow Green Gates	Airport	505207	177072	NO ₂ , PM ₁₀ , PM _{2.5} (TEOM)	Yes	N	N/A (background for the airport) 62m from airport boundary)	No (Background location)
Heathrow Oaks Road	Airport	505729	174496	NO ₂ , PM ₁₀ , PM _{2.5} (TEOM)	Yes	N	5m	No
Hillingdon Hayes	Roadside	510303	178882	NO ₂ , PM ₁₀ (BAM)	Yes	Y(15m)	5m	Yes

2.1.2 Non-Automatic Monitoring Sites

Passive diffusion tube monitoring of NO₂ is carried out at a number of locations across the Borough. During 2012 NO₂ monitoring was undertaken using diffusion tubes at 37 sites.

During the year a review of site locations was undertaken. Several sites were removed and 16 new sites were added. Sites removed were due to either low monitored concentrations in the locality, or a lack of relevant exposure in the vicinity. All new sites were placed at locations of relevant exposure where possible.

Sites removed in 2012 were:

- HD42 Uxbridge Technical College, Hayes
- HD46 South Ruislip Monitoring Station (one tube from a triplicate)
- HD48 Citizens Advice Bureau, Eastcote Road, Ruislip
- HD64 34 Hatch Lane, Sipson
- HD66 486 Sipson Road, Sipson
- HD68 Ratcliffe Close, Uxbridge
- HD69 Hillingdon Health Centre, Freezeland Way
- HD72 2 Vineries Close
- HD76 Kaduna Close, Eastcote
- HD77 Chamberlain Way, Eastcote
- HD78 Gateway Close, Northwood
- HD79 Corner of Swallowfield Way and Kestrel Way
- HD80 Corner of Swallowfield Way and Kestrel Way

Sites added during 2012 were:

- HD50A Location nearby previous Hillingdon Hospital monitoring station
- HD200 49 Zealand Avenue
- HD201 Near 3 Hercies Road
- HD202 49 Silverdale Gardens, Hayes
- HD203 Blyth Road, Hayes
- HD204 Side of 104 Yiewsley High Street
- HD205 1 Porters Way

- HD206 5-7 Mulberry Crescent, West Drayton
- HD207 35 Emden Close, West Drayton
- HD208 Side of 50 St. Christopher's Drive
- HD209 29 Pendula Drive, Hayes
- HD210 340 Long Lane, Uxbridge
- HD211 198 Harefield Road, Uxbridge
- HD212 59 Hillingdon Road, Uxbridge
- HD213 10 West End Lane, Harlington
- HD214 R/O 130 Cleave Avenue, Hayes

Locations and details of passive monitoring sites in 2012 are presented in the figures and tables below.

A bias adjustment factor of 1.01 reported in the latest version (v03_13) of the national database of co-location studies¹ conducted for tubes prepared (50% TEA in acetone) and analysed by Gradko during 2012 has been used to adjust the diffusion tube results.

Full details of the diffusion tube QA/QC including justification for the choice of bias adjustment factor are presented in Appendix A. Monthly NO₂ diffusion tube data are also provided in Appendix B.

¹ http://lagm.defra.gov.uk/bias-adjustment-factors/bias-adjustment.html

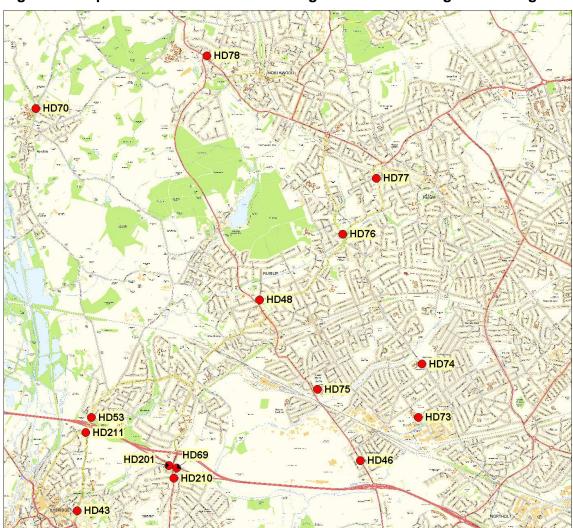


Figure 3 - Map of Non-Automatic Monitoring Sites North Hillingdon Borough



Figure 4 - Map of Non-Automatic Monitoring Sites South Hillingdon Borough

Table 4 - Details of Non- Automatic Monitoring Sites

Site ID	Site Name	Site Type	X OS Grid Reference	Y OS Grid Reference	Site Height (m)	In AQMA?	Relevant Exposure? (Y/N with distance (m) from monitoring site to relevant exposure)	Distance to Kerb of Nearest Road (m) (N/A if not applicable)	Does this Location Represent Worst-Case Exposure?
HD31	AURN Monitoring Station, Sipson	Roadside	506951	178605	2.5	Yes	Y(0m)	30m from M4	Co-location site
HD31	AURN Monitoring Station, Sipson	Roadside	506951	178605	2.5	Yes	Y(0m)	30m from M4	Co-location site
HD31	AURN Monitoring Station, Sipson	Roadside	506951	178605	2.5	Yes	Y(0m)	30m from M4	Co-location site
HD42	Uxbridge Technical College, Hayes Annex, Coldharbour Lane, Hayes (on fence)	Roadside	510417	180752	2.5	Yes	Y(4m)	2m	Representative of a road
HD43	Uxbridge Day Nursery, Park Road, Uxbridge (on wire Fence)	Roadside	505995	184057	2.5	Yes	Y(0m)	4m	Yes
HD46	South Ruislip Monitoring Station, West End Road	Suburban	510837	184917	2.5	Yes	Y(14m)	2.5m	Representative of a road
HD46	South Ruislip Monitoring Station, West End Road	Suburban	510837	184917	2.5	Yes	Y(14m)	2.5m	Representative of a road
HD47	Hillingdon Primary School, Uxbridge Road, Hillingdon (on wire fence)	Roadside	507617	182506	2.5	Yes	Y(0m)	5m	Representative of a road

Site ID	Site Name	Site Type	X OS Grid Reference	Y OS Grid Reference	Site Height (m)	In AQMA?	Relevant Exposure? (Y/N with distance (m) from monitoring site to relevant exposure)	Distance to Kerb of Nearest Road (m) (N/A if not applicable)	Does this Location Represent Worst-Case Exposure?
HD48	Citizens Advice Bureau, Eastcote Road, Ruislip (above main Entrance)	Background	509117	187665	2.5	No	N	7m	No
HD49	83 Hayes End Drive, Hayes End, Middlesex (on drain pipe)	Background	508650	182274	2.5	Yes	Y(7m)	7m	No - background
HD50A	Hillingdon Hospital Monitoring Station, Colham Road (Near John Rich House on former junction to Pield Heath Road)	Roadside	506990	181925	2.5	Yes	Y(7m)	2m	Representative of a street
HD51	Top of Colham Avenue (4), Yiewsley (lamp post at end of road)	Background	506334	180266	2.5	Yes	Y(0m)	4m	Yes- Nearest residential to busy road
HD52	Lamp post near 101 Cowley Mill Road, Uxbridge	Background	505157	183231	2.5	Yes	Y95m)	1m	Representative of a road
HD53	Warren Road, Ickenham, Uxbridge (1st lamp post on left)	Background	506241	185652	2.5	Yes	Y(1m)	23m	Yes -nearest residential to busy road
HD55	Harold Avenue, (first lamp post on left)	Background	509917	179015	2.5	Yes	Y(4m)	30m	Yes - nearest residential to busy road

Site ID	Site Name	Site Type	X OS Grid Reference	Y OS Grid Reference	Site Height (m)	In AQMA?	Relevant Exposure? (Y/N with distance (m) from monitoring site to relevant exposure)	Distance to Kerb of Nearest Road (m) (N/A if not applicable)	Does this Location Represent Worst-Case Exposure?
HD56	15 Phelps Way, Hayes (lamp post outside of)	Background	509796	178633	2.5	Yes	Y(7m)	1.5m	Representative of a road
HD57	25 Cranford Lane, Harlington (lamp post on the left afyer car park)	Background	508756	177717	2.5	Yes	Y(7m)	1m	Yes -nearest residential to busy road
HD58	Brendan Close, Harlington (1st lamp post on the left)	Background	508412	177124	2.5	Yes	Y(0m)	1m	Representative of a road
HD59	Bomber Close (7), Sipson (1st lamp post on left)	Background	507294	177322	2.5	Yes	Y(8m)	1m	Representative of a road
HD60	Harmonsworth Green, Harmondsworth (lamp post outside nursery)	Background	505753	177760	2.5	Yes	Y(0m)	1m	Representative of a street
HD61	Heathrow Close, Longford (1st lamp post on the right)	Background	504848	176770	2.5	Yes	Y(0m)	2m	Representative of a street
HD64	34 Hatch Lane, Sipson, Middlesex (on drainpipe)	Roadside	505875	177610	2.5	Yes	Y(0m)	17m	Representative of a street
HD65	28 Pinglestone Close, Sipson, Middlsex (on drainpipe)	Background	506082	177081	2.5	Yes	Y(0m)	4m	Representative of a street
HD66	486 Sipson Road, Sipson, Middlesex (on drainpipe)	Background	507305	177518	2.5	Yes	Y (0m)	12m	Representative of a street
HD67	31 Tavistock Road (on lamp- post outside house)	Background	505729	180290	2.5	Yes	Y(3m)	1m	Representative of a street

Site ID	Site Name	Site Type	X OS Grid Reference	Y OS Grid Reference	Site Height (m)	In AQMA?	Relevant Exposure? (Y/N with distance (m) from monitoring site to relevant exposure)	Distance to Kerb of Nearest Road (m) (N/A if not applicable)	Does this Location Represent Worst-Case Exposure?
HD68	Ratcliffe Close, Uxbridge (1st lamp-post on the left)	Background	505775	182565	2.5	Yes	Y(0m)	1m	Yes - nearest residential to road
HD69	Hillingdon Health Centre, Freezeland Way (on drain-pipe)	Roadside	507699	184786	2.5	Yes	Y(0m)	2m	Yes
HD70	Harefield Hospital, Hill End Road (lamp-post outside entrance)	Background	505291	190935	2.5	No	Y(0m)	5m	Representative of a street
HD72	2 Vineries Close (drainpipe on building façade, front of)	Background	507236	177927	2.5	Yes	Y(0m)	9m	Representative of a street
HD73	Queensmead School, South Ruislip. (lamp-post opposite Jubilee Drive) (outside AQMA)	Background	511825	185655	2.5	No	Y(0m)	1m	Representative of a street
HD74	Field End Road/Field End School, S.Ruislip. 3rd Lamp- post south of school entrance (outside AQMA)	Roadside	511887	186565	2.5	No	Y(8m)	1m	Yes
HD75	Sidmouth Drive, South Ruislip (2nd lamp-post from West End Road outside Nursery) (outside AQMA)	Background	510103	186133	2.5	No	Y(4m)	2m	Yes - nearest receptor to busy road

Site ID	Site Name	Site Type	X OS Grid Reference	Y OS Grid Reference	Site Height (m)	In AQMA?	Relevant Exposure? (Y/N with distance (m) from monitoring site to relevant exposure)	Distance to Kerb of Nearest Road (m) (N/A if not applicable)	Does this Location Represent Worst-Case Exposure?
HD76	Kaduna Close, Eastcote (lamp- post outside No. 1 Kaduna Close corner to Joel Street) (outside AQMA)	Roadside	510536	188787	2.5	No	Y(4m)	1m	Yes - nearest residential to busy road
HD77	Chamberlain Way, Eastcote (1st lamp-post left in Chamberlain Way corner to Monitoring Cuckoo Hill) (outside AQMA)	Background	511108	189742	2.5	No	Y(12m)	1m	Representative of a street
HD78	Gateway Close, Northwood (1st lamp-post on left of Gateway Close corner to Rickmansworth Road) (outside AQMA)	Roadside	508212	191833	2.5	No	Y(24m)	1m	Representative of a street
HD79	Corner of Swallowfield Way and Kestrel Way (Railside on fence)	Roadside	508537	179606	2.5	Yes	Y(0m)	36m (from railway)	South of railway so not worse- case. North would be worse- case due to prevailing wind
HD80	Corner of Swallowfield Way and Kestrel Way (Roadside on first lamp-post to the west)	Background	508542	179650	2.5	Yes	Υ	44m	No

Site ID	Site Name	Site Type	X OS Grid Reference	Y OS Grid Reference	Site Height (m)	In AQMA?	Relevant Exposure? (Y/N with distance (m) from monitoring site to relevant exposure)	Distance to Kerb of Nearest Road (m) (N/A if not applicable)	Does this Location Represent Worst-Case Exposure?
HD200	49 Zealand Avenue Lamp Post (1)	Roadside	505920	177188	2.5	Yes	Y(8m)	13m	Yes
HD201	Near 3 Hercies Road, Lamp Post (1)	Roadside	507568	184830	2.5	Yes	Y(3m)	1m	Yes
HD202	49 Silverdale Gardens, Hayes Lamp Post (8)	Background	510361	179820	2.5	Yes	Y(9m)	14m	Yes
HD203	Blyth Road, Hayes Lamp Post (4)	Roadside	509683	79486	2.5	Yes	Y(6m)	2m	No
HD204	Side of 104 Yiewsley High Street (front of 1A Fairfield Road) Lamp Post (2)	Background	506108	180493	2.5	Yes	Y(9m)	37m	No
HD205	1 Porters Way (corner with Kingston Lane) Lamp Post (1)	Background	506503	179510	2.5	Yes	Y(12m)	9m	No
HD206	5-7 Mulberry Crescent, West Drayton Lamp Post (18)	Background	507141	179628	2.5	Yes	Y(10m)	2m	No
HD207	35 Emden Close, West Drayton Lamp Post (14)	Background	507580	179812	2.5	Yes	Y(7m)	60m	No
HD208	Side of 50 St. Christopher's Drive Lamp Post (13)	Background	510761	180766	2.5	Yes	Y(5m)	180m	No
HD209	29 Pendula Drive, Hayes Lamp Post (2)	Background	511828	182023	2.5	Yes	Y(10m)	79m	No
HD210	340 Long Lane, Uxbridge Lamp Post (71)	Roadside	507649	184611	2.5	Yes	Y (18m)	2m	Yes

Site ID	Site Name	Site Type	X OS Grid Reference	Y OS Grid Reference	Site Height (m)	In AQMA?	Relevant Exposure? (Y/N with distance (m) from monitoring site to relevant exposure)	Distance to Kerb of Nearest Road (m) (N/A if not applicable)	Does this Location Represent Worst-Case Exposure?
HD211	198 Harefield Road, Uxbridge Lamp Post (2)	Background	506143	185395	2.5	Yes	Y(9m)	33m	No
HD212	59 Hillingdon Road, Uxbridge Lamp Post (56)	Roadside	506035	183611	2.5	Yes	Y(12m)	1.5m	Yes
HD213	10 West End Lane, Harlington Lamp Post (2)	Background	508773	177352	2.5	Yes	Y(11m)	33m	No
HD214	R/O 130 Cleave Avenue, Hayes Lamp Post (33)	Background	509499	178370	2.5	Yes	Y(18m)	27m	No

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2.2 Comparison of Monitoring Results with Air Quality Objectives

2.2.1 Nitrogen Dioxide (NO₂)

Automatic Monitoring Data

The annual mean NO_2 concentrations measured at the automatic monitoring locations from 2008 to 2012 are presented in Table 5 below. Concentrations in excess of the $40\mu g/m^3$ objective are highlighted in bold. Results of the NO_2 1-Hour mean over the same period are provided in Table 6.

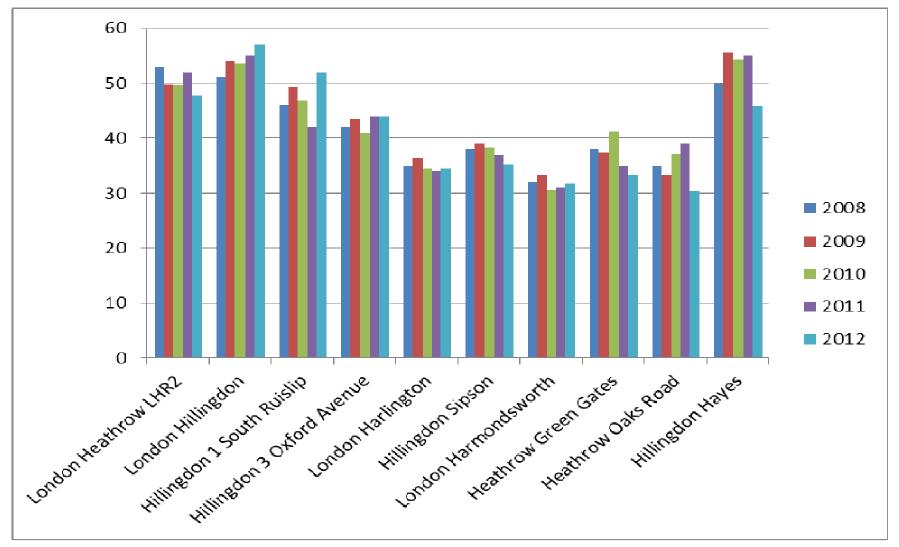
A bar chart showing the trends in annual mean NO₂ concentrations over the last five years is presented in Figure 5. From the available monitoring data and trends the following observations have been made:

- Concentrations at London Hillingdon have continued to increase as the trend over the last four years has continued in 2012. This site is representative of relevant exposure as it is a similar distance from the M4 motorway as the nearby housing. This site is already within the Hillingdon AQMA.
- Concentrations at Hillingdon South Ruislip have increase by 10μg/m³, which is a significant increase given that the site was already exceeding the annual mean AQS objective for NO₂. The site recorded 52μg/m³ in 2012 compared with 42μg/m³ in 2011. It is recommended that the Council investigate what caused this increase in 2012.
- Concentrations at other monitoring sites remained the same or decreased in 2012 compared to results over recent years. No exceedences of the 1-hour mean AQS objective for NO₂ were recorded in 2012, although the South Ruislip site was close to the objective (14 hourly means > 200µg/m³, whilst 18 exceedences per year are allowed). Although the annual mean NO₂ at London Hillingdon site was close to 60µg/m³, there was no hourly mean > 200µg/m³ recorded in 2012.

Table 5 - Results of Automatic Monitoring for NO₂: Comparison with Annual Mean Objective

Site ID	Location	Within AQMA?	Data Capture for Full Calendar Year 2012 %	Annual Mean Concentrations (μg/m³)					
		714	20.2 %	2008 2009 2010 2011 53 49.8 49.6 52 51 54.0 53.6 55 46 49.3 46.9 42 42 43.4 41.0 44 35 36.3 34.5 34 38 39.0 38.3 37 32 33.4 30.5 31 38 37.5 41.2 35 35 33.4 37.2 39	2012				
London Heathrow LHR2	Airport	Yes	97	53	49.8	49.6	52	47.7	
London Hillingdon	Suburban	Yes	97	51	54.0	53.6	55	57.1	
Hillingdon 1 South Ruislip	Roadside	Yes	100	46	49.3	46.9	42	52.0	
Hillingdon 3 Oxford Avenue	Roadside	Yes	77	42	43.4	41.0	44	44.0	
London Harlington	Airport	Yes	98	35	36.3	34.5	34	34.5	
Hillingdon Sipson	Urban background	Yes	100	38	39.0	38.3	37	35.2	
London Harmondsworth	Airport	Yes	75	32	33.4	30.5	31	31.8	
Heathrow Green Gates	Airport	Yes	98	38	37.5	41.2	35	33.4	
Heathrow Oaks Road	Airport	Yes	93	35	33.4	37.2	39	30.3	
Hillingdon Hayes	Roadside	Yes	91	50	55.6	54.3	55	45.9	





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Table 6 - Results of Automatic Monitoring for NO₂: Comparison with 1-Hour Mean Objective

Site ID	Location	Within AQMA?	Data Capture for Full Calendar Year 2012 %	Number of 1-Hour Means > 200		s > 200µg/ı	m ^{3 (1)}	
				2008	2009	2010	2011	2012
London Heathrow LHR2	Airport	Yes	97	0	0	2 (154)	0	0
London Hillingdon	Suburban	Yes	97	1 (159)	0	0	0	0
Hillingdon 1 South Ruislip	Roadside	Yes	100	5	2	7	0	14
Hillingdon 3 Oxford Avenue	Roadside	Yes	77	1	0 (97.9)	1 (142)	0	0 (124)
London Harlington	Airport	Yes	98	0	0 (82.5)	0	0	0
Hillingdon Sipson	Urban background	Yes	100	2	7	0	0	0
London Harmondsworth	Airport	Yes	75	0	0	0 (101)	0	0 (123)
Heathrow Green Gates	Airport	Yes	98	0 (141)	0	0	0	0
Heathrow Oaks Road	Airport	Yes	93	2 (168)	4	0	0	0
Hillingdon Hayes	Roadside	Yes	91	0	7	15	15	2
(1) If data capture less than 90%, the	99.8 th percentile is shown in	brackets						

Diffusion Tube Monitoring Data

Results of annual mean NO₂ concentrations measured at diffusion tubes in 2012 have been reported in Table 7. Monthly results are also provided in Appendix B. Results at sites with less than 75% (9 months) data capture have been annualised in line with Technical Guidance LAQM.TG(09) Box 3.2 (see Appendix A). There were 29 tubes which required annualisation in 2012 due to the number of changes made to the tube network during the year. There is always a degree of uncertainty regarding annualisation and results which have been annualised should be viewed with a level of caution.

Annual mean NO_2 concentrations in excess of the $40\mu g/m^3$ objective were measured at the following diffusion tube sites in 2012:

- HD31 AURN monitoring station, Sipson;
- HD42 Uxbridge Technical College;
- HD43 Uxbridge Day Nursery;
- HD46 South Ruislip monitoring station;
- HD50a Hillingdon Hospital;
- HD53 Warren Road, Ickenham;
- HD58 Brendan Close, Harlington;
- HD201 3 Hercies Road:
- HD203 Blyth Road;
- HD205 Porters Way;
- HD210 Long Lane;
- HD213 West End Lane; and
- HD214 Cleave Avenue.

Exceedences recorded in 2012 all occurred within the existing AQMA. The exceedence recorded at HD42 is an annualised result based on 3 months of data (as this site was removed in March 2012) and therefore should be viewed with caution. Concentrations at most sites showed an increase in NO₂ during 2012 compared to 2011 results. This will have been caused in part by the higher bias adjustment factor in 2012 (1.01) compared to that in 2011 (0.93).

It is recommended that the Council continue to monitor at all existing locations.

Table 7 - Results of NO₂ Diffusion Tubes 2008-2012

Site ID	Location	In AQMA	Data Capture 2012	Annual Mean Concentrations (μg/m³)					
			(Months)	2008	2009	2010	2011	2012	
HD31	AURN Monitoring Station, Sipson	Yes	11	45.0	45.9	44.9	44.7	46.3**	
HD42	Uxbridge Technical College, Hayes Annex, Coldharbour Lane, Hayes (on fence)	Yes	3	35.8	35.6	34.7	36.9	41.1	
HD43	Uxbridge Day Nursery, Park Road, Uxbridge (on wire Fence)	Yes	11	45.0	45.5	49.7	43.4	45.2	
HD46	South Ruislip Monitoring Station, West End Road	Yes	11	47.3	47.5	47.3	42.4	46.5*	
HD47	Hillingdon Primary School, Uxbridge Road, Hillingdon (on wire fence)	Yes	10	32.2	32.3	34.3	30.0	31.1	
HD48	Citizens Advice Bureau, Eastcote Road, Ruislip (above main Entrance)	No	3	30.7	30.1	27.8	27.7	30.8	
HD49	83 Hayes End Drive, Hayes End, Middlesex (on drain pipe)	Yes	11	27.0	27.1	27.0	25.6	25.8	
HD50A	Hillingdon Hospital, Colham Road (Near John Rich House on former junction to Pield Heath Road)	Yes	8	-	-	-	-	40.7	

Site ID	Location	In AQMA	Data Capture 2012	Annual Mean Concentrations (μg/m³)						
			(Months)	2008	2009	2010	2011	2012		
HD51	Top of Colham Avenue (4), Yiewsley (lamp post at end of road)	Yes	11	36.2	34.3	34.2	33.1	36.2		
HD52	Lamp post near 101 Cowley Mill Road, Uxbridge	Yes	11	38.4	38.6	36.2	33.3	37.0		
HD53	Warren Road, Ickenham, Uxbridge (1st lamp post on left)	Yes	10	45.5	44.1	41.0	40.5	44.6		
HD55	Harold Avenue, (first lamp post on left)	Yes	8	41.7	40.5	40.2	37.8	38.0		
HD56	15 Phelps Way, Hayes (lamp post outside of)	Yes	11	38.5	35.2	35.8	35.2	36.7		
HD57	25 Cranford Lane, Harlington (lamp post on the left afyer car park)	Yes	10	38.3	37.2	38.4	36.5	39.3		
HD58	Brendan Close, Harlington (1st lamp post on the left)	Yes	10	41.6	43.2	39.8	39.4	40.0		
HD59	Bomber Close (7), Sipson (1st lamp post on left)	Yes	11	36.0	36.6	33.8	34.4	35.8		
HD60	Harmonsworth Green, Harmondsworth (lamp post outside nursery)	Yes	10	32.9	31.0	31.1	29.4	32.1		
HD61	Heathrow Close, Longford (1st lamp post on the right)	Yes	11	36.7	36.3	37.3	34.9	34.1		
HD64	34 Hatch Lane, Sipson, Middlesex (on drainpipe)	Yes	3	-	32.8	32.6	31.7	35.7		
HD65	28 Pinglestone Close, Sipson, Middlsex (on drainpipe)	Yes	10	31.8	33.0	32.4	32.5	38.2		

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Site ID	Location	In AQMA	Data Capture 2012	Anı	nnual Mean Concentrations (μg/m³)				
			(Months)	2008	2009	2010	2011	2012	
HD66	486 Sipson Road, Sipson, Middlesex (on drainpipe)	Yes	3	34.1	32.9	33.7	30.7	35.5	
HD67	31 Tavistock Road (on lamp-post outside house)	Yes	11	31.8	29.8	31.6	30.1	29.2	
HD68	Ratcliffe Close, Uxbridge (1st lamp-post on the left)	Yes	2	29.0	28.5	29.4	27.3	29.8	
HD69	Hillingdon Health Centre, Freezeland Way (on drain-pipe)	Yes	3	35.4	36.2	35.6	33.5	38.2	
HD70	Harefield Hospital, Hill End Road (lamp-post outside entrance)	No	11	26.0	25.9	25.5	23.9	25.4	
HD72	2 Vineries Close (drainpipe on building façade, front of)	Yes	3	30.5	29.9	31.9	31.9	34.6	
HD73	Queensmead School, South Ruislip. (lamp-post opposite Jubilee Drive) (outside AQMA)		10	31.1	29.3	27.4	26.3	27.8	
HD74	Field End Road/Field End School, S.Ruislip. 3rd Lamp-post south of school entrance (outside AQMA)	No	11	32.3	28.9	31.3	28.4	28.5	
HD75	Sidmouth Drive, South Ruislip (2nd lamp-post from West End Road outside Nursery) (outside AQMA)	No	11	29.3	30.8	29.0	27.7	29.0	

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Site ID	Location	In AQMA	Data Capture 2012	An	nual Mean	Concentra	ations (µg/	/m³)
			Capture	2008	2009	2010	2011	2012
HD76	Kaduna Close, Eastcote (lamp-post outside No. 1 Kaduna Close corner to Joel Street) (outside AQMA)	No	3	29.3	27.5	28.9	25.0	29.7
HD77	Chamberlain Way, Eastcote (1st lamp-post left in Chamberlain Way corner to Monitoring Cuckoo Hill) (outside AQMA)	No	3	26.3	26.2	27.6	25.0	29.1
HD78	Gateway Close, Northwood (1st lamp-post on left of Gateway Close corner to Rickmansworth Road) (outside AQMA)	No	3	32.5	32.8	30.6	31.4	33.4
HD79	Corner of Swallowfield Way and Kestrel Way (Railside on fence)	Yes	3	-	32.1	-	32.8	35.7
HD80	Corner of Swallowfield Way and Kestrel Way (Roadside on first lamp- post to the west)		3	-	34.2	35.3	33.0	39.6
HD200	49 Zealand Avenue Lamp Post (1)		8	-	-	-	-	37.6
HD201	Near 3 Hercies Road, Lamp Post (1)	Yes	8	-	-	-	-	42.8
HD202	49 Silverdale Gardens, Hayes Lamp Post (8)	Yes	8	-	-	-	-	33.3
HD203	Blyth Road, Hayes Lamp Post (4)	Yes	7	-	-	-	-	48.1

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Site ID	Location	In AQMA	Data Capture 2012	An	nual Mean Concentrations (µg/m³)			
		·	(Months)	2008	2009	2010	2011	2012
HD204	Side of 104 Yiewsley High Street (front of 1A Fairfield Road) Lamp Post (2)	Yes	6	-	-	-	-	38.7
HD205	1 Porters Way (corner with Kingston Lane) Lamp Post (1)	Yes	7	-	-	-	-	41.9
HD206	5-7 Mulberry Crescent, West Drayton Lamp Post (18)	Yes	7	-	-	-	-	29.4
HD207	35 Emden Close, West Drayton Lamp Post (14)	Yes	7	-	-	-	-	30.5
HD208	Side of 50 St. Christopher's Drive Lamp Post (13)	Yes	5	-	-	-	-	29.6
HD209	29 Pendula Drive, Hayes Lamp Post (2)	Yes	8	-	-	-	-	34.5
HD210	340 Long Lane, Uxbridge Lamp Post (71)	Yes	8	-	-	-	-	49.9
HD211	198 Harefield Road, Uxbridge Lamp Post (2)	Yes	7	-	-	-	-	33.5
HD212	59 Hillingdon Road, Uxbridge Lamp Post (56)	Yes	4	-	-	-	-	38.4
HD213	10 West End Lane, Harlington Lamp Post (2)	Yes	7	-	-	-	-	40.2
HD214	R/O 130 Cleave Avenue, Hayes Lamp Post (33)	Yes	8	-	-	-	-	49.5

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^{**} Triplicate average

* Duplicate average
In bold, exceedence of the NO₂ annual mean AQS objective of 40µg/m³

2.2.2 Particulate Matter (PM₁₀)

Annual mean concentrations from 2008 to 2012 have been presented in Table 8. Data measured using TEOM has been VCM (Volatile Correction Model) corrected using the VCM website², a summary of the VCM corrections is provided in Appendix A. The data capture at London Harmondsworth was below the recommended 75%, however as the annual mean was well below the objective (19.7µg/m³ with 70% data capture) it has not been deemed necessary to annualise the data.

Results across the Borough have remained relatively stable compared to 2011 with a maximum variance of $-4.3\mu g/m^3$ being recorded at London Harlington. The average variance across the Borough recorded was a reduction of concentrations by $1.1\mu g/m^3$.

Results of the PM_{10} 24-Hour mean over the same period are provided in Table 9. Where data capture was below 90% the 90.4^{th} percentile has been calculated to indicate if there is a potential to exceed the 24-Hour mean PM_{10} objective in excess of $50\mu g/m^3$, 35 times per year. No sites indicated an exceedence of this objective in 2012.

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² http://www.volatile-correction-model.info/Default.aspx

Table 8 - Results of Automatic Monitoring for PM₁₀: Comparison with Annual Mean Objective

Site ID	Site Type	Within AQMA?	Valid Data Capture 2012 %	Confirm Gravimetric Equivalent (Y or N/A)	Annual Mean Concentration (μg/m³)				m³)
					2008	2009	2010	2011	2012
LHR2	Airport	Yes	99	Y	23.4	25.3	23.8	25.0	24.8
Hillingdon 1 – South Ruislip	Roadside	Yes	97	Y	22.9	35.4	22.4	24.0	24.1
Hillingdon 3 – Oxford Avenue	Roadside	Yes	97	Y	21.4	21.1	20.4	23.0	22.4
London Harlington	Airport	Yes	84	Y	20.9	16.2	19.7	22.0	17.7
London Harmondsworth	Airport	Yes	70	Y	29.7	27.9	17.8	21.0	19.7
Heathrow Green Gates	Airport	Yes	99	Y	17.2	17.6	20.0	21.0	20.8
Hillingdon Hayes	Roadside	Yes	88	Y	21.6	16.3	23.5	25.0	25.4
Heathrow Oakes Road	Airport	Yes	96	Υ	19.8	21.3	21.8	24.0	21.3

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Table 9 - Results of Automatic Monitoring for PM₁₀: Comparison with 24-Hour Mean Objective

Site ID	Site Type	Within AQMA?	Valid Data Capture for Monitoring	Capture Gravimetric Foundation		ber of 24-	Hour Mear	ns > 50µg/	m ^{3 (1)}
			Period %		2008	2009	2010	2011	2012
LHR2	Airport	Yes	99	Υ	15	7	4	19	18
Hillingdon 1 – South Ruislip	Roadside	Yes	97	Y	12	7	5	21	16
Hillingdon 3 – Oxford Avenue	Roadside	Yes	97	Y	10	2	2	16	10
London Harlington	Airport	Yes	84	Y	10	5	12	1	8 (37)
London Harmondsworth	Airport	Yes	70	Y	33	25	25	10	5 (37)
Heathrow Green Gates	Airport	Yes	99	Y	2	0	0	16	8
Hillingdon Hayes	Roadside	Yes	88	Υ	2	6	7	18	15 (47)
Heathrow Oakes Road	Airport	Yes	96	Y	9	1	2	16	11
(1) If data capture less than 90%, the 90.4 th percentile is shown in brackets									

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2.2.3 Sulphur Dioxide (SO₂)

No monitoring of sulphur dioxide was carried out in 2012 as previous rounds of air quality Review and Assessment have shown that there is no risk of exceeding the AQS objectives for this pollutant.

2.2.4 Benzene

No monitoring of benzene was carried out in 2012 as previous rounds of air quality Review and Assessment have shown that there is no risk of exceeding the AQS objectives for this pollutant.

2.2.5 Ozone

Continuous monitoring of O_3 is undertaken at the London Hillingdon AURN monitoring site and the London Harlington monitoring site. O_3 is a transboundary pollutant; the sources of O_3 are frequently spatially distant from the measured site of the concentrations. This pollutant is not a prescribed air quality objective for LAQM purposes; however, it has been reported as recommended by Technical Guidance LAQM TG(09).

The results from 2012 indicate that the AQS objective for O_3 , of 10 8-Hour running mean exceedences of $100\mu g/m^3$ per year is being exceeded at both monitoring locations.

Table 10 - Results of Automatic Monitoring for Ozone: Comparison with Objectives

Location	Within AQMA?	Description	% Data capture 2012	Number of Exceedences in 2012				
London Hillingdon	Yes	Maximum 8- hour running	97	49				
London Harlington	Yes	mean > 100 µg/m³	92	36				
In bold, exceedence of the ozone AQS objective (100µg/m³ - 10 exceedences allowed per year)								

2.2.6 PM_{2.5}

PM_{2.5} is monitored at three monitoring sites in the Borough. PM_{2.5} objectives have been set out in the UK Air Quality Regulations. Although there is no requirement for local authorities to review and assess PM_{2.5} against these objectives as part of the LAQM regime, results have been reported as recommended by Technical Guidance LAQM.TG(09).

The $PM_{2.5}$ results indicate that levels are well below the target value of $25\mu g/m^3$ in 2012.

Table 11 - Results of Automatic Monitoring for Particulates (PM_{2.5})

Location	Within AQMA?	Data capture 2012 %	PM _{2.5} Annual Mean 2012 *				
Heathrow Green Gates	Υ	96	9.9				
LHR2	Υ	99	10.6				
Heathrow Oakes Road	Υ	96	9.7				
London Harlington	Υ	91	13.4				
* As a comparison, the UK AQS objective for PM _{2.5} is 25µg/m³ (target value) for England							

2.2.7 Summary of Compliance with AQS Objectives

The Council has examined the results from monitoring in the Borough.

Concentrations within the AQMA still exceed the objective for NO₂ and the AQMA should remain.

Concentrations outside of the AQMA are all below the objectives at relevant locations, therefore there is no need to proceed to a Detailed Assessment.

3 New Local Developments

3.1 Road Traffic Sources

Since the previous Review and Assessment report, there have been none of the following new or newly identified developments:

- Narrow congested streets with residential properties close to the kerb;
- Busy streets where people may spend one hour or more close to traffic;
- Roads with a high flow of buses and/or HGVs;
- Junctions;
- New roads constructed or proposed;
- Roads with significantly changed traffic flows; or
- Bus or coach stations.

3.2 Other Transport Sources

Since the previous Review and Assessment report, there have been none of the following new or newly identified developments:

- Airports;
- Locations where diesel or steam trains are regularly stationary for periods of 15 minutes or more, with potential for relevant exposure within 15m;
- Locations with a large number of movements of diesel locomotives, and potential long-term relevant exposure within 30m; or
- Ports for shipping.

3.3 Industrial Sources

Since the previous Review and Assessment report, there have been none of the following new or newly identified developments:

- Industrial installations:
- Major fuel storage depots;
- Petrol stations; or
- Poultry farms.

3.4 Commercial and Domestic Sources

Since the previous Review and Assessment report, there have been none of the following new or newly identified developments:

- Biomass combustion plant individual installations;
- Areas where the combined impact of several biomass combustion sources may be relevant; or
- Areas where domestic solid fuel burning may be relevant.

3.5 New Developments with Fugitive or Uncontrolled Sources

Since the previous Review and Assessment report, there have been none of the following new developments:

- Landfill sites;
- Quarries:
- Unmade haulage roads on industrial sites;
- Waste transfer stations etc: or
- Other potential sources of fugitive particulate emissions.

The Council confirms that there are no new or newly identified local developments which may have an impact on air quality within the Local Authority area.

The Council confirms that all the following have been considered:

- Road traffic sources
- Other transport sources
- Industrial sources
- Commercial and domestic sources
- New developments with fugitive or uncontrolled sources.

4 Local / Regional Air Quality Strategy

The Council is part of the Greater London Authorities who are helping to implement the London Plan. The London Plan³ is the statutory strategic plan produced by the Mayor of London outlining the spatial development strategy for Greater London. All London Boroughs are required to have regard of the London Plan in their own development plans, planning decisions and spatial strategies. The London Plan consists of a number of policies to employ land-use and traffic planning to reduce air pollution and exposure. It requires local authorities to ensure that new developments are sustainable, safe, secure, well designed and improve the environment (particularly the air quality).

London Plan's Policy 7.14, "Improving Air Quality" deals with air pollution and states that:

"A The Mayor will work with strategic partners to ensure that the spatial, climate change, transport and design policies of this plan support implementation of his Air Quality Strategy to achieve reductions in pollutant emissions and public exposure to pollution".

Policy 7.14 also states that:

- "B Development proposals should:
 - a minimise increased exposure to existing poor air quality and make provision to address local problems of air quality (particularly within AQMAs).
 - b promote sustainable design and construction to reduce emissions from the demolition and construction of buildings, following the best practice guidance in the Greater London Authority (GLA) and London Councils "The control of dust and emissions from construction and demolition Best Practice Guidance".
 - c aim to be "air quality neutral" and not lead to further deterioration of existing poor air quality (such as in AQMAs). Offsetting should be used to ameliorate negative impacts associated with development

³ Mayor of London, The London Plan: Spatial Development Strategy for Greater London, (Consultation draft replacement plan), October 2009

⁴ Mayor of London (Nov 2006), The control of dust and emissions from construction and demolition - Best Practice Guidance, Produced in partnership by the Greater London Authority and London Councils

proposals. Increased exposure to existing poor air quality should be minimised.

- d ensure that, where provision needs to be made to reduce emissions from a development, this is usually made onsite. Where it can be demonstrated that onsite provision is impractical or inappropriate, and that it is possible to put in place measures having clearly demonstrated equivalent air quality benefits, planning obligations or planning conditions should be used as appropriate to ensure this, whether on a scheme by scheme basis or through joint area-based approaches.
- e where the development requires a detailed air quality assessment and biomass boilers are included, the assessment should forecast pollutant concentrations. Permission should only be granted if no adverse air quality impacts from the biomass boiler are identified."

The Council has made no changes to any local or regional strategies since the previous Round of Review and Assessment.

5 Planning Applications

The Council has set up a weekly meeting where each new planning application is assessed to determine if an air quality assessment is required. If an air quality assessment is required, theplanning application will only be validated once the air quality assessment has been received and appraised by the Environmental Protection Unit.

A list of all planning applications which could have an impact upon air quality is provided in Appendix C.

6 Air Quality Planning Policies

The policies set out in local authority planning documents determine the authority's approach to the relationship between planning and air quality. They are important as new developments are judged against these policies.

The London Borough of Hillingdon has developed a Local Development Framework (LDF), with the Core Strategy. This has identified where significant growth or change is proposed, providing information to help address air quality matters. Air quality planning guidance has been integrated into the new LDF "folder" through Supplementary Planning Guidance.

Currently the London Borough of Hillingdon Unitary Development Plan (UDP) (2007) Saved Policies lays out the air quality planning policies. This document updates the policies from the previous UDP, in doing so uses the policies from the London Plan Policies. In 2002 the Council published the Supplementary Planning Guidance to the Unitary Development Plan – Air Quality SPG.

The Hillingdon Public Heath Annual Report 'Health in a Cold Climate' and the Joint Strategic Needs Assessment (JSNA), both recognise the need for improved air quality.

7 Local Transport Plans and Strategies

Hillingdon's Local Implementation Plan (LIP) sets out how the Council proposes to implement the Mayor's Transport Strategy (MTS) and provides details on projects, proposals and programmes from 2011. In the LIP, the Council has presented a range of transport policies, initiatives and projects with the aim to improve air quality. These can be found in Chapter 4 – LIP Proposal Delivery Forms where each option is discussed in detail. Status of the Local Implementation Plan

There is strong synergy between the AQAP and the LIP, with most of the surface transport actions listed shared between the two.

8 Climate Change Strategies

The Council adopted a climate change strategy in 2009. The strategy links with the AQAP and recognises the joint impacts of the air quality improvements and improvements and reduction in climate change.

9 Implementation of Action Plans

Overall progress with Hillingdon's Air Quality Action Plan

Hillingdon's Action Plan contains a large number of measures (more than 100) split across the following eight packages:

Package 1: Switching to cleaner transport options, for example, shifting freight from road to rail and promoting cycling and walking

Package 2: Tackling through traffic

Package 3: Promotion of cleaner vehicle technology

Package 4: Measures specific to Heathrow Airport

Package 5: Measures concerning local industries and other businesses

Package 6: Improving the eco-efficiency of current and future developments, including those owned or operated by the Council

Package 7: Actions to be taken corporately, regionally, and in liaison with the Mayor

Package 8: Plan management

Overall, across these packages, 75% of measures have been fully adopted. In general, implementation of measures that Hillingdon has full control over has been very good (e.g. those in Packages 1, 3, 5 and 8). There has been less success in Packages where other groups are heavily involved, for example:

- Package 2, which involves TfL, the Highways Agency and others
- Package 4, which involves heathrow airport and DfT, though progress has recently been as a result of the commitments made in Heathrow's Air Quality Strategy for 2011-2020
- Package 7, which involves many stakeholders, from Central Government to local and regional bodies

It is not intended that this should be interpreted as direct criticism of these outside bodies, as it is in part a consequence of the broad ranging nature of the current Action Plan; in seeking to implement so many measures it was inevitable that problems would arise with some, particularly where the Borough was not responsible for funding or management. As it would seem to take longer to get actions in place where partnership working is needed it is very important to ensure that reducing pollutant emissions is a key part of the objectives of each working partner. Overall,

the success in bringing action plan measures into place provides a firm foundation for the revision of the plan in the coming year.

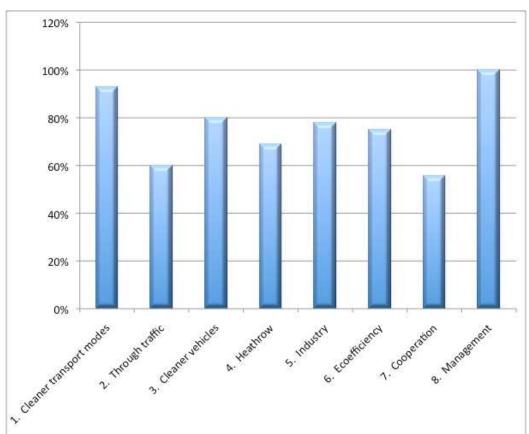


Figure 6 - % of Measures in Each Package that were Fully in Place by the End of 2012

Highlights from Air Quality Action Plan implementation in 2012

The following highlights are discussed in the progress report:

- Further development of the Transport Tool Kit
- Schools Cleaner Air Zone Project
- Hillingdon and Heathrow Hotspot Project
- Assistance to researchers, keeping Hillingdon in touch with state-of-the-art developments in understanding of air quality science
- > A series of specific transport actions including:
 - Several activities focused on schools:

- Continuation of the successful Walk on Wednesdays for all Borough schools,
- Active promotion in regard to the supply of safe walking and cycling equipment such as reflective vests, pedometers and bicycle bells,
- Road safety events
- An annual ceremony to celebrate the schools that have achieved a modal shift through their School Travel Plans
- Activities focused on cycling, including the establishment of a network of Cycle Rangers.
- o The funding of a travel plan monitoring officer
- Action in the Air Quality Hotspot Areas addressing:
 - o West End Road, South Ruislip.
 - o Hayes Town Centre.
 - Uxbridge Road corridor.
 - Heathrow Villages.
 - West Drayton and Yiewsley.
- ➤ An application for funding from the Mayor's Air Quality Fund for work on alternative fuelled vehicles
- Work with the Heathrow and Local Authorities Working Group, including;
 - Audit of Heathrow Air Quality Action Plan 2011-2020
 - o NOx Sensor Project
 - o Heathrow Airwatch Website
- Response to consultation on the Aviation Policy Framework
- Development of a response strategy to the Howard Davies Airports Commission

Next Steps

It was stated last year that the most significant next step involves the ongoing revision of the action plan. This includes ensuring that it is properly linked with national, regional and other local policies. This is now complicated by the renewed interest in airport development. It may thus be argued that for Hillingdon the most significant next step lies in its response to consultation around the future of Heathrow.

In carrying out further actions it is important to be conscious of the need to maintain the impetus of local, regional and national actions in the interests of public health protection. The main focus of this work will doubtless be on those areas where limits are currently exceeded. However, the importance of at least maintaining, and preferably improving, air quality in areas that already meet the objectives should be borne in mind, given that the air quality limit values do not represent concentrations at which there is no effect on health.

9.1 Overview of progress: analysis of situation, opportunities, faults and threats

9.1.1 Situation

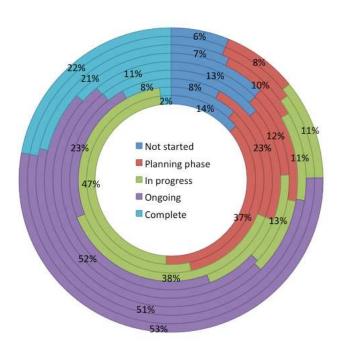
Information on the progress with all measures in the action plan since its adoption is provided in Table 12. The format used is broadly consistent with that shown in the progress report template. Progress within each package is summarised in the figures below. These show the number of measures in package at each of the following stages of development:

- Not started
- In the planning phase
- In progress
- Ongoing
- Completed

The category 'Completed' covers measures for which no further action is required (including monitoring). The category 'Ongoing' covers measures that are complete in the sense that all necessary actions are in place, but which will require continued input and monitoring. A good example concerns Measure 8.06 (annual reporting on air quality in the Borough). The present report demonstrates that the Council has all necessary actions in place for such reporting, but further annual reports will be required for the foreseeable future. In contrast, measures 'in progress' need additional action to be seen through to either the 'Ongoing' or 'Completed' categories.

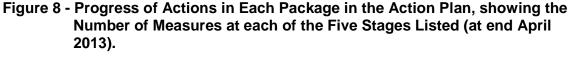
An overview of how the Action Plan has progressed over the years is provided by Figure 7 showing the proportion of measures at each at stage of development. In the first two years (inner rings) about half of the measures were underway in some form beyond 'planning'. By 2008 more than half of the measures were ongoing/complete. By the reporting year, 75% of measures were ongoing/complete.

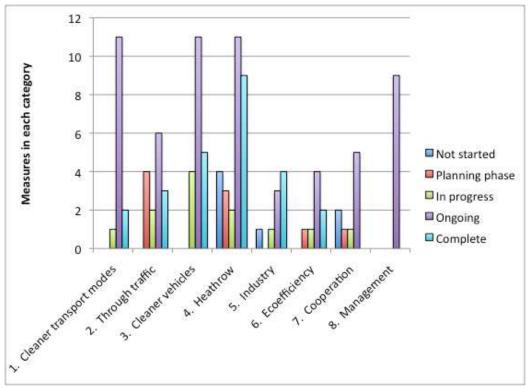
Figure 7 - % of Actions Listed in the Various Packages of the Action Plan in Each Stage of Implementation. Rings from inside to out represent progress for 2004/5 and then for each year to 2012/13.



A significant number of measures remain in the other two categories, with 6% of measures not started and 8% in a planning phase. To a significant extent these reflect measures for which wider support was needed that has not been forthcoming, or measures that, with the benefit of hindsight, are now not considered practicable. However, despite the maturity of the plan at this point in time, there has been some advancement of measures in the reporting year compared to the previous year.

Figure 8 shows progress against each Package of measures.





A thorough review of all measures classed as 'in progress/ongoing/complete' has been made as part of the audit of the Action Plan completed in the reporting year. They are, therefore, not discussed in more depth in this Chapter, though additional information is given in the Table 12 that provides a listing of progress against each measure. It should also be noted that some of the completed measures include actions such as investigating whether subsidies could be applied to public transport (e.g. the Heathrow Express) to improve modal switch. In several such cases it has been concluded that there is no scope for implementing these measures, for example they are not in Hillingdon's power and the bodies responsible are unwilling to take them on.

9.1.2 Opportunities

A large number of measures identified in the action plan are included in LIP2. This has the potential to provide a major source of funding for local actions in the action plan for the future. However, it does not influence any actions that are outside the

control of the Council, for example those in areas where Transport for London, the Highways Agency, HEATHROW AIRPORT or the Department for Transport are responsible.

Section 106 Agreements continue to provide further funding for measures included in or relevant to the action plan.

The Environmental Protection Unit still enjoys enthusiastic support for the action plan from other departments in the Council, from procurement to transport planning.

Good collaboration with other local stakeholders continues, particularly with neighbouring local authorities. This provides the scope for effective regional working. This, in turn, provides the opportunity to improve the effectiveness of delivery of the action plan.

Publication of the Heathrow Air Quality Strategy for 2011-2020 provides a new focus for working with the airport's operator for air quality improvement.

A new funding stream has become available, the Mayor's Air Quality Fund. A bid has been made by Hillingdon, together with Heathrow Airport and GlaxoSmithKline for funding on alternative fuels, particularly electric vehicles. This is an important bid so far as Hillingdon's action plan is concerned given that the proposed work links to no fewer than six measures:

- > 7.07 Work in partnership to ensure consistency of Action Plan measures and explore all opportunities for regional measures for reducing emissions.
- ➤ 1.07 Ensure Green Travel Plans are a requirement for all businesses (new and existing) employing more than a specified number of people in the Borough.
- ➤ 3.07: Lead the way in trialling new technology, where appropriate, and act as a point of information for businesses and other stakeholders in Hillingdon for cleaner vehicle technologies, national schemes and grant systems for the use of alternative fuels.
- ➤ 3.16: Facilitate the uptake and use of alternative fuels, including water-diesel emulsion. This should include development of appropriate alternative

- refuelling infrastructure where necessary e.g. charging points for electric vehicles.
- ➤ 4.14: Pursue quantification of measures in the HEATHROW AIRPORT Air Quality Action Plan and Surface Access Strategy in terms of air quality impacts.
- ➤ 4.16: Assess feasibility of a Heathrow specific LEZ to reduce emissions and accelerate take up of cleaner vehicle technology.

9.1.3 Faults

There are three types of fault that could affect the action plan and the Council's implementation of it:

- 1. Failure to meet the limit values by the required date. The Council's responsibility as determined by Central Government extends only to "move towards" compliance with the EU limit values, recognising the constraints acting on Local Authorities. The most obvious constraints affecting Hillingdon concern its lack of control of the major emission sources in the Borough Heathrow Airport and the major road network.
- 2. Adoption of an action plan that is insufficiently ambitious in "moving towards" the limit values. On the basis that the plan has been reviewed by the GLA and National Government and that neither has identified this to be a problem, it is concluded that the plan is considered to be sufficiently ambitious relative to plans prepared by other local authorities. It is, however, now several years old, so it is appropriate that the Council takes action to revise the plan.
- 3. Failure to implement the plan to the extent required to move sufficiently towards compliance with the limit values. The Council has completed many actions that were part of the original plan. On the other hand, some have not been implemented at all. These are being reviewed with a view to considering whether further effort can be directed to their implementation or whether alternative approaches are needed.

These issues were considered in the 2012 audit of the action plan, conclusions from which are reproduced below.

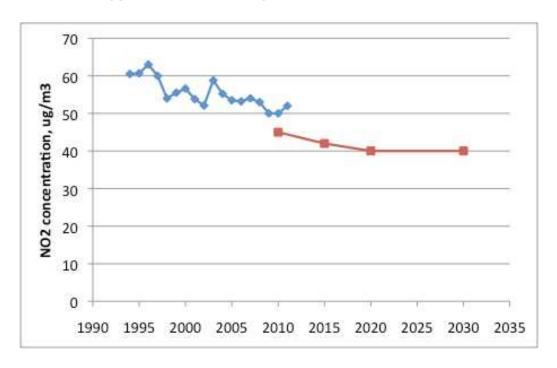
A problem that has arisen during the reporting year is the delay in the Hillingdon and Heathrow Hotspot Project. This is now due to report in August 2013. Delay in the project has led to a delay in revision of the action plan.

9.1.4 Threats

The ongoing economic crisis has a direct effect on reducing emissions through for example, reduced traffic. However, it will, in the longer term, delay the implementation of some measures and reduce the rate at which older vehicles are replaced with those designed with higher levels of pollution abatement equipment.

There remains significant uncertainty relating to plans for Heathrow Airport. The Howard Davies Airports Commission was set up by the Coalition Government in recognition of the need to establish a solid independent evidence base for a long-term strategy for aviation in the UK. The Commission will publish an interim report by the end of 2013 on immediate actions to improve the use of current runway capacity. Given that rumours persist that a further application will be made for development of a Third Runway at Heathrow, it is informative to consider how the forecast NO_2 concentration made in the previous application compares to actual concentration (Figure 9). It is very clear that the air quality modelling for Heathrow airport that supported the earlier application, suggesting compliance with air quality limit values by 2020, is not supported by monitoring data. For 2012 the measured data exceed the forecast by 4 μ g/m³. This is less of a difference than for the previous year, though in part this is likely to highlight meteorological variability and the continuing economic slow-down.

Figure 9 - Annual mean NO₂ concentrations at LHR2. Blue Line = Measured Data; Red Line = Modelled Information for 2010 to 2030 Reported in Support of Heathrow Expansion.



9.2 Progress with the action plan

Highlights are listed here with reference to the appropriate action plan measures.

9.2.1 Selected highlights from the reporting year and other developments

Transport Tool Kit

Measure 2.05: Develop best practice advice to ensure air quality assessments are made for proposals for new transport infrastructure and changes to traffic management. Following on from the development of the Hillingdon Ready Reckoner emissions toolkit, an Excel-based tool for assessing the emission impacts from traffic management measures, Hillingdon successfully led a joint Defra bid with Leicester City Council to extend and incorporate a further range of schemes into the database. The initial workshop demonstrating the use of the tool has been held at Leicester and the project team is currently identifying relevant schemes for pre and post implementation emissions assessment.

Schools Cleaner Air Zone

Measure 1.06: Introduce more Safe Routes to School throughout the Borough with special regard to the schools within the highest exceedence areas.

Measure 3.09: Investigate the provision of low or zero emission buses for schools within the high exceedence areas.

Measure 6.02: Work with existing buildings and housing stock to secure improvements in emissions.

Along with Camden, K&C and City of London, Hillingdon were successful in a Defra bid for this project, which is match-funded through the Borough LIPs and the GLA. Each Borough is currently identifying their priority schools. The project will aim to use a range of measures for reducing emissions from selected schools and their surroundings and adding protection to schoolchildren from nearby congested road networks.

Hillingdon and Heathrow Hotspot Project

Measure 2.12: Identify air quality congestion-related hotspots throughout West London and the appropriate measures for delivering improvement in both congestion and air quality e.g. new access road from the A40 to Ruislip industrial areas.

This ongoing project will permit measures to be more closely targeted at areas of prime exceedence than previously. An extension of time for this project has been agreed with Defra, due to difficulties in obtaining key traffic data inputs from project stakeholders. The revised deadline is August 2013. One disbenefit of the delay has been to postpone the review of Borough action plans.

Transport actions

These are continuing Borough wide, as the following examples show:

Measure 1.05: Improve provision for pedestrians.

Measure 1.06: Introduce more Safe Routes to School throughout the Borough with special regard to the schools within the highest exceedence areas.

Several activities are focused on schools, including:

Continuation of the successful Walk on Wednesdays for all Borough schools,

- Active promotion in regard to the supply of safe walking and cycling equipment such as reflective vests, pedometers and bicycle bells,
- Road safety events
- An annual ceremony to celebrate the schools that have achieved a modal shift through their School Travel Plans

Measure 1.03: Encourage the development of more dedicated cycle (priority) lanes and signalling.

This has been pursued through cycling programmes through bikeability and Biking Borough initiatives including the establishment of a network of Cycle Rangers. The Rangers are a group of volunteers who actively use the cycling network around the Borough and hence have a very good understanding of where improvements are needed. A series of events has been held across the Borough aimed at encouraging cycling including:

- Promotion of cycling at events such as "Party in the Park", "Hayes Carnival" and the local "Skyride" in Hayes;
- Support of Go Green in the Chimes Shopping Centre which has strengthened partnerships with Brunel University, the Chimes and the Local Cycling Campaign;
- Organisation of 10 volunteer led cycle rides for residents with British Cycling in the summer months across all parts of the Borough;

Measure 1.07: Ensure Green Travel Plans are a requirement for all businesses (new and existing) employing more than a specified number of people in the Borough.

Funded by WestTrans, a partnership of the west London boroughs of Hillingdon, Hounslow, Ealing, Harrow, Hammersmith and Fulham and Brent, Hillingdon now have a travel plan monitoring officer for one day a week. This will allow the auditing and enforcement of travel plans in the Borough. The travel plan database is currently being updated, the development of a monitoring mechanism for compliance and enforcement is to be the next stage of the project

Action in the Air Quality Hotspot Areas

Measure 2.01: Introduce Home Zones/20 mph in residential areas subject to significant amounts of through traffic that should use alternative routes.

Measure 2.12: Identify air quality congestion-related hotspots throughout West London and the appropriate measures for delivering improvement in both congestion and air quality e.g. new access road from the A40 to Ruislip industrial areas.

West End Road, South Ruislip. A banned right hand turn from a London Underground depot in the area of Ruislip Gardens station had led to increased HGV movements through residential areas as drivers attempt to head south to access the A40. A scheme has now been agreed for a set of controlled traffic signals to allow the HGVs to legitimately turn right towards the A40. This will lead to reduced emissions as the route is shorter and in addition remove HGVs from residential streets.

Measure 1.11: Support multi modal travel by further development of public transport interchanges for rail/cycle/bus/walking both within Hillingdon and the West London area.)

Hayes Town Centre. The need for improvements to the public transport interchange in Hayes has been recognised and there is a programme of work aimed at improving the public realm and increasing sustainable travel modes including roll out of Legible London walking information in Hayes and the interchanges with the Grand Union Canal. There is a regeneration programme being put in place for including a redesign of the current Hayes Town Centre including, potentially, the local road network. Consultants have been commissioned to undertake an air quality assessment of the final design in order to ensure any air quality impacts arising from a change in the road network are effectively managed.

Measure 2.06: Work in partnership with TfL to implement schemes along the high exceedence corridors designed to smooth traffic flows.

Uxbridge Road corridor. This West London initiative looks along the whole road corridor from Uxbridge to Southall. It will identify traffic management issues along the corridor which includes interaction with nine separate shopping parades and busy bus routes. This will form the basis for a scheme of works aimed at improving the public realm and smoothing the flow of traffic. It is anticipated that this project will help address the small pockets of air quality exceedence that exist at several of the junctions along this corridor.

Measure 2.01: Introduce Home Zones/20 mph in residential areas subject to significant amounts of through traffic that should use alternative routes.

Heathrow Villages. The villages suffer from intrusion from road traffic, mainly caused by rat-running and HGVs using the narrow residential streets to access the A4 and the airport area. Traffic calming schemes are currently being considered and measures to manage HGVs will form part of a future workstream.

Measure 2.06: Work in partnership with TfL to implement schemes along the high exceedence corridors designed to smooth traffic flows.

West Drayton and Yiewsley. Improvements are to be made to a key road link between south West Drayton and the main Stockley Bypass (A408). It is anticipated that the creation of better road alignment and better operation of the roads will result in helping reduce traffic volumes on Yiewsley High Street which contribute to the areas of poor air quality along the High Street.

Keeping up with the science

Hillingdon remains committed to keeping its knowledge of air quality science up to date. An example from the reporting year was collaboration with researchers leading to the publication of a paper by Malby et al⁵ entitled 'Conditional extraction of air-pollutant source signals from air-quality monitoring'. The abstract of the paper is as follows:

"Ambient air-quality data contain information about air-pollution sources that is currently underexploited. This information could be used to assess trends in the emissions performance of specific sources, and to check at an early stage if policies or controls to reduce air-quality impacts from particular sources are working. Previous techniques for extracting such information have tended to adopt complex analyses and to rely on data from monitoring networks with many sites, thus limiting their applicability to non-specialist users and to networks with few sites. This paper describes simple techniques for 'conditionally' selecting data from one or two monitors, and for analysing and interpreting concentrations in terms of source performance or policy progress. Our techniques minimise the effects of variations in meteorology and source activity, so that the selected data give a more consistent indication of individual source performance. We demonstrate our techniques with a

LAQM Progress Report 2013

Malby, A.R., Whyatt, J.D. and Timmis, R.J. (2013) Conditional extraction of air-pollutant source signals from air-quality monitoring. Atmospheric Environment 74 (2013) 112e122.

case study, in which we track the source performance of road traffic on the M4 motorway in London and show how impacts per vehicle have changed over time under different conditions of traffic flow and fleet composition."

Mayor's Air Quality Fund

As noted above, this links with six action plan measures (7.07, 1.07, 3.07, 3.16, 4.14 and 4.16)

This new fund, supported by TfL and the GLA, has been launched to provide matchfunding for Boroughs that produce innovative new schemes and projects designed to tackle air pollution. To gain access to the funding, Boroughs must sign up to specific criteria to confirm ongoing support to becoming a Cleaner Air Borough.

Hillingdon and Hounslow have submitted a partnership bid to the Mayor's Air Quality Fund along with Heathrow Airport and GlaxoSmithKline (GSK). If successful, the funding will enhance the partners' current work on the promotion of alternative fuels especially in regard to electric vehicles. A methodology will be developed for quantifying the reduction in emissions and will be facilitated by the provision of the necessary infrastructure and a high quality marketing campaign. It is anticipated that the focus will be on specialist markets such as taxis and mini cabs given their high levels of use throughout the area. The bid awards are expected by the end of June.

Heathrow and Local Authorities Working Group Audit of Heathrow Air Quality Action Plan 2011-2020

Measure 4.10: Audit progress on the HEATHROW AIRPORT Heathrow Air Quality Action Plan (2001-2006).

After an external tendering process, consultants have been appointed to undertake an audit of specified actions for the Plan. The working group is currently formalising which actions will be audited.

NOx Sensor Project

Measure 4.11 Review air quality monitoring regime at Heathrow and identify potential gaps.

The operator of Heathrow Airport is working with the University of Cambridge on the development and deployment of a network of electrochemical sensors across the

Airport. If proved accurate, the sensors will help provide a more detailed spatial analysis of emissions across the airport. The local authorities are currently working with the Airport to co-locate the new sensors with existing air quality monitoring stations as part of the project development process.

Heathrow Airwatch Website

Measure 4.11 Review air quality monitoring regime at Heathrow and identify potential gaps.

Developed some years ago as a single point for all air quality information relating to the airport, the site is currently undergoing refresh. It is anticipated that the new site will be up and running by the end of June 2013.

Aviation

Aviation Policy Framework

Measure 4.01: Continue to oppose any further expansion at Heathrow that leads to negative air quality impacts.

And linked to:

Measure 4.19: Develop best practice guidelines to ensure air quality impact assessments are integral part of relevant transport and transport infrastructure proposals, and that appropriate mitigation measures are inclusive part of any scheme.

Measure 4.25 Lobby Central Government to pursue more stringent emission standards for plant, aircraft and airside vehicles.

Measure 7.09 UK Government to actively support air quality improvement in Hillingdon

After public consultation, the Aviation Policy Framework was finalised and published in March 2013. In regards to local air quality, a commitment to achieving full compliance with European air quality standards is given (para 3.47). The policy itself seeks improvements via tightening international standards to reduce emissions from aircraft and vehicles and to work with airports and local authorities to improve local air quality. The document states that it expects airports to take the responsibility of addressing the surface access emissions associated with accessing the airport seriously, and also recognises that with noise management and mitigation prioritised as the main local impacts, proposals that have significant trade-off issues (e.g.

reducing noise yet increasing emissions of air pollutants), need to be carefully assessed. This is clearly very important for the area around Heathrow.

Howard Davies Airports Commission

Measure 4.01: Continue to oppose any further expansion at Heathrow that leads to negative air quality impacts.

The Howard Davies Airports Commission was set up by the Coalition Government to establish a solid independent evidence base for a long-term strategy for aviation. The Commission will publish an interim report by the end of 2013 on immediate actions to improve the use of current runway capacity. Hillingdon, along with the 2M group, will engage with the Commission to ensure that the serious implications for local air quality that could arise from proposals for expansion of the will be properly assessed and addressed. This needs to be done as an integral part of the process and in a transparent fashion so that the problems associated with the previous Government's proposal to expand Heathrow are not repeated (see Figure 9). The reductions in emissions that had been assumed for the Adding Capacity at Heathrow consultation painted a picture of an area, even with a third runway and all the additional flights and surface access traffic, in compliance with the EU limit values. In reality we have the situation that this area, with a 2 runway airport capped to 480,000 ATMs, will not be in compliance until at least 2020.

9.3 Conclusions from the audit (Holland, 2012)6

The audit of Hillingdon's air quality action plan (AQAP) was produced for two purposes. The first was to summarise evidence regarding the robustness of Hillingdon's approach to its air quality problems. The second was to inform the revision of the plan. It investigated a series of 15 questions, brief conclusions on which are given in this summary.

9.3.1 The need for an AQAP

1. Was Hillingdon correct to declare an air quality management area (AQMA) for NO₂, leading to the requirement for an AQAP?

⁶ Holland, M.R. (2012) The London Borough of Hillingdon, Air Quality Action Plan: Independent audit of the air quality action plan, 2012.

Results of modelling studies and data from the monitoring network confirm that Hillingdon was correct to declare an AQMA for annual mean concentrations of NO₂.

9.3.2 Scope of the AQMA

2. Does the air quality monitoring network within the Borough provide a reliable indication of pollution levels?

The air quality monitoring network was reviewed in the 2011 Progress Report, concluding that it was fit for purpose. Some recommendations were made for more efficient use of resources and these recommendations have been implemented. Monitoring stations are subject to quality control procedures. There is good agreement between the different types of monitoring equipment in place, and with the results of monitoring studies. It is concluded therefore that the Hillingdon network provides a reliable indication of air quality in the Borough.

3. Did the declared AQMA cover the correct area, and is it still appropriate?

The declared AQMA is supported by the data available to the Council. Further investigation may now be needed in one location north of the current limit of the AQMA at Eastcote Village at the junction of the B472 and B466.

9.3.3 Implementation of the AQAP

4. How many measures from the Action Plan have been fully implemented?

Eighty five of the measures presented in the action plan are either complete or fully in place but requiring annual monitoring/continual update, representing 75% of the total number of measures. A further eleven measures are now in progress. Ten measures are considered to still be in a planning phase and there has been no progress with a further seven. The seven yet to be started include four that are focused on traffic using Heathrow.

5. Has the AQAP led to an improvement in air quality?

At one level the answer to this question has to be no, given that monitored data show no reduction in NO₂ levels since the plan came into operation. However, other data show that there has been progress in a range of areas, from reducing traffic (and this covering a period prior to the economic downturn) to establishing sustainable waste management practices, including the banning of bonfires. It can be inferred from this

that whilst there has been no clear improvement in NO₂ levels, they are likely to have worsened in the absence of the action plan.

. Where does responsibility lie for those measures that have not been fully implemented?

Most of the measures that are yet to be fully implemented involve, to a greater or larger extent, TfL, HA and HEATHROW AIRPORT in addition to Hillingdon. Closer collaboration with these organisations will be needed in the future. It is recognised that the Council already liaises with these bodies, ways for more successful collaboration need to be identified.

7. Is the Council using its planning powers adequately?

Progress in this area has improved over time. At the start of the AQAP it was very difficult to obtain information on new planning applications. However, links between EPU and the Planning Department have improved, as shown by better access to planning applications. There is also greater willingness to explore potential for using Section 106 agreements than previously existed, providing some funding for air quality improvements.

8. Is the Council effective in lobbying external organisations?

Twelve measures in the AQAP exclusively concern lobbying other bodies such as the GLA, Defra, DfT, the airport operator and European Commission to act in areas outside of Hillingdon's control. Other measures also include a requirement for lobbying other groups. Given that the main sources of air pollution in the Borough are not under Hillingdon's control, these lobbying activities are extremely important. Given that the outcome of lobbying can be rather intangible most effort has so far gone towards those measures with a clearer outcome, such as the establishment of a safe routes plan for a school. However, lobbying opportunities have also been taken in seeking to address the problems linked to the major roads and to the airport. Perhaps most notably, the Council has succeeded in highlighting the problems faced by Hillingdon to the European Commission. However, there seems as yet no coordinated plan by the Council for lobbying on air quality issues. Lobbying has certainly been carried out by Council Officers, consultants to the council and others, and has had some effect. However, it is recommended here to develop a more effective lobbying strategy, ideas for which are outlined.

9.3.4 Design of the AQAP

9. Is the structure of the AQAP appropriate? Should it be broader based or more focused?

The existing plan contains over 100 measures spread across 8 packages:

Package 1: Switching to cleaner transport options, for example, shifting freight from road to rail and promoting cycling and walking

Package 2: Tackling through traffic

Package 3: Promotion of cleaner vehicle technology

Package 4: Measures specific to Heathrow Airport

Package 5: Measures concerning local industries and other businesses

Package 6: Improving the eco-efficiency of current and future developments, including those owned or operated by the Council

Package 7: Actions to be taken corporately, regionally, and in liaison with the Mayor

Package 8: Plan management

This structure is similar to that adopted elsewhere, including by the Beacon Authorities for Air Quality. A very targeted action plan was not appropriate to Hillingdon initially because the main sources of emissions (Heathrow and the major road network) were not under the control of the Council. It was appropriate that the Council sought to improve air quality to the extent that it was able, whilst seeking to influence the activities causing the greatest problems through the appropriate authorities.

Moving forward, it was suggested that the following is done to simplify the plan:

- Actions that are complete and do not need further monitoring be removed from the plan.
- 2. Actions in the 'ongoing' category be kept under review. This is important to ensure, for example, that school travel plans remain active.
- 3. Measures 'under review' in this way should be brought together within a single monitoring action.
- 4. Packages should be realigned against the body or bodies that would be most responsible for their implementation. For example, all activities that would need to be led by TfL should be brought together into a single package.

- 5. Discussions be held with each body to determine the following:
 - a. An appropriate list of measures for each package
 - b. The availability of resource for each measure
 - c. The likely benefit of each measure in isolation and combination with others
 - d. The timescale for each measure to be fully implemented
- 6. With this done, it will be appropriate to report back to Defra to give a clear indication of:
 - a. The extent to which air quality in the AQMA may improve under a new plan
 - b. The timescale for improvements
 - c. In the event that limit values will not be met on a reasonable timescale, identification of the sources of air pollution most affecting areas subject to exceedence
 - d. Opportunities for bringing forward the date of compliance with the air quality limit values should be identified, bearing in mind that this is already behind time.

10. Should existing measures continue?

A review of all measures in the existing action plan with consideration to how they may feature in a revised action plan was provided in Table 12.

11. Should the Action Plan be merged with Borough Transport Plans?

It was concluded that the plan should not be merged with the Borough Transport Plan (the LIP) as it has to address problems beyond those covered by the LIP, notably relating to Heathrow and the strategic road network that is not under local control.

12. Are responsibilities in the AQAP allocated appropriately?

Subject to the recommendations made above for revision of the action plan, it seems that responsibilities are allocated appropriately.

9.3.5 Interaction with stakeholders

13. Have the Council Officers responsible for the AQAP liaised sufficiently with:

- a. The public?
- b. Other departments in the Council?
- c. Neighbouring Boroughs and the Mayor's Office?
- d. Regulatory authorities?
- e. Heathrow Airport
- f. Other local businesses?

The audit concluded that there has been a good level of liaison with most other stakeholders. However, in the future there has to be improved liaison with the airport operator and those responsible for the major road network. Without this it will not be possible to advise government on likely timescales for compliance, or to be clear that the measures identified in a revised plan are the most efficient.

9.3.6 Learning

14. Has the Council taken the opportunity to learn about best practice from other local authorities?

It was concluded that Hillingdon has interacted with other councils to an appropriate level in order to learn about best practice. It was noted that Hillingdon has a unique problem in being home to the UK's largest airport.

15. Have the Council's successes and failures in implementation of the plan been communicated so that others may learn from them?

Whilst the Council has not communicated its successes and failures to other local authorities (beyond its neighbours) in a formal and systematic way, it was argued that Defra should put a mechanism in place for this to happen. If this was linked to the existing review process it would require very little added expenditure and is likely to have substantial benefits, including cost savings.

9.3.7 Next Steps

Links to national policy

The Council will continue to monitor developments relating to the government's discussion with the European Commission in relation to compliance with the air quality directives. It will also monitor and respond to national initiatives (e.g. around the Aviation Policy Framework) that have clear implications for air quality in the Borough, and hence the health of Borough residents.

Links to regional policy

The most recent TfL guidance to Boroughs in regards to LIP funding concentrated on carbon reduction. Whilst many measures that reduce carbon also reduce local air quality pollutants there are exceptions. The new guidance from TfL (expected this year) is anticipated to also have a focus on improving local air quality. Boroughs will be able to match-fund LIP money with (e.g.) Defra money in order to undertake larger projects. As an example, Hillingdon has committed LIP funding towards a project to be match-funded by the Defra AQ grant along with 3 other London Boroughs and the GLA. The project, if funding is received, will investigate the environment in and around identified schools to identify ways of improving local air quality that are closely tailored to the specific conditions around those schools.

Local actions

Hillingdon is reviewing the current Air Quality Action Plan. The Borough is looking to work with neighbouring Boroughs to ensure a consistent approach and that all regional measures are accounted for. This process has been delayed as the recommendations from the Hillingdon/Heathrow Hotspot project are still awaited (new deadline, August 2013). These are expected to play a major role in the action plan review, along with the findings of the audit completed in 2012.

It is anticipated that the emissions database tool designed for Hillingdon as part of the Emission Data Base project will provide a means by which transport management measures can be screened for their impact on emissions prior to implementation. This will allow design/mitigation features to be an integral part of the scheme. These activities will be facilitated by the improvements made to the tool in the reporting year.

Table 12 - Action Plan Progress

Updates to the tables since the last report are shown in blue text.

Ref.	Action Plan Measure	Original Time- scale	Progress with Measure	Outcome to date	Comments	Local Authority Role	Responsi- bility
Package							
1.	Switching to Cleaner Transp	port Modes					
1. 01.	Establish a Green Travel	2010	In	Staff survey on intranet March 2007	Still draft	Local	Planning and
	Plan for Hillingdon.		progress	to gain baseline information on	The development of the	Authority	Transportatio
				existing travel patterns.	travel plan is now	Led	n
				The assessment of journeys to work	embedded in the Climate		
				and business trips is now complete.	Change Strategy as a		
				Consultants have been	short term measure to be		
				commissioned to implement a	implemented by 2010.		
				phased implementation strategy.	Various initiatives such as		
					Cycle Purchase Scheme,		
					Council Car sharing		
					scheme, reduced car		
					parking from 5 to 4 days a		
					week and Season Ticket		
					Loans are already being		
					rolled out across the		
					Council.		

		Original	Progress			Local	Responsi-
Ref.	Action Plan Measure	Time-	with	Outcome to date	Comments	Authority	bility
		scale	Measure			Role	Sinty
					This will now be		
					implemented via the		
					Hillingdon LIP under		
					development as a		
					requirement of the MTS2.		
					The LIP was completed in		
					April 2011.		
1. 02.	Improve access to, and	2008	Ongoing	Specific public transport information	Face to face interviews at	Local	Planning and
	quality of, public transport			booklets developed for the Chimes	Uxbridge and South	Authority	Transportatio
	travel information for			shopping centre, South Ruislip,	Ruislip Industrial Business	Led	n
	people living and working			Uxbridge IBA.	Areas to roll out freight		
	in the Borough.			Article in Hillingdon People	audit leaflets and public		
				promoting car share and Heathrow-	transport booklets;		
				specific car share.	Improvements made to 10		
					bus stops in Hillingdon		
					with regards to service		
					information.		
					See above for Hillingdon		
					employees;		
					The provision of public		
					transport information will		
					be part of planning		
					obligations in relevant		

			Original	Progress			Local	Responsi-
	Ref.	Action Plan Measure	Time-	with	Outcome to date	Comments	Authority	•
			scale	Measure			Role	bility
						qualifying developments.		
1	03.	Encourage the	2008	Ongoing	Implemented routes in 06/07 via	Hillingdon has rolled out	Local	Highways
		development of more			BSP:	Bikeability and currently	Authority	
		dedicated cycle (priority)			Route 39 - Uxbridge Road;	has 1,500 children at level	Led	
		lanes and signalling.			Route 88A -	1 and 2 across the		
					Hayes/Harlington/Heathrow;	Borough.		
					Route 89 - Uxbridge to Heathrow;	Improvements made		
					Link 95 – Hayes and Yeading.	along 17 cycling routes -		
					The demand for cycle parking in	all within the AQMA and		
					Hillingdon is currently exceeding the	along routes of air quality		
					existing capacity. A strategic study	exceedences.		
					is to be commissioned to identify	55k for cycle training		
					where the facilities are needed and	throughout the Borough		
					the best means to secure them as	via BSP funding,		
					soon as possible.	866k for cycling network		
					Data show 35% increase in cycling	improvements via BSP		
					in the Borough on monitored roads.	funding;		
					Cycling programmes through	The provision of cycling		
					bikeability and Biking Borough	facilities will be part of		
					initiatives including the	planning obligations in		
					establishment of a network of Cycle	relevant qualifying		
					Rangers. The Rangers are a set of	developments.		
					volunteers who actively use the			

Ref.	Action Plan Measure	Original Time- scale	Progress with Measure	Outcome to date	Con	nments	Local Authority Role	Responsi- bility
				cycling network around the borough and hence are able to direct where improvements are needed. Organised a series of events across the borough aimed at encouraging cycling including: Promotion of cycling at events such as "Party in the Park", "Hayes Carnival" and the local "Skyride" in Hayes; Support of Go Green in the Chimes Shopping Centre which has strengthened partnerships with Brunel University, the Chimes and the Local Cycling Campaign; Organisation of 10 volunteer led cycle rides for residents with British Cycling in the summer months across all parts of the borough;				
1. 04.	Extend provision of more parking for motorcycles, mopeds and bicycles at	2007	Ongoing	No specific policy on motorbike parking yet, bicycle parking is well established throughout the Borough	SPD on obligations for	section 106 currently out consultation.	Local Authority Led	Highways

Ref.	Action Plan Measure	Original Time- scale	Progress with Measure	Outcome to date	Comments	Local Authority Role	Responsi- bility
	public sites and new developments.			with every opportunity taken to increase this, e.g. new developments. No formal audit taken though. See role of Cycle Rangers under action 1.03.	Developments of less than 20 staff/occupiers must provide a minimum of cycle storage facilities as part of a "Move for Action" plan, developments over 20 staff/occupiers must provide a full travel plan that includes cycle facilities, storage, promotion of cycle routes etc SPD now published (July 2008)		
1. 05.	Improve provision for pedestrians.	2008	Ongoing	Pedestrian Crossings - 10 put in place in 2008. More congestion hot spots looked at for traffic management measures to smooth traffic flow, 4 of these are in the AQMA. Local Safety Schemes implemented via BSP at 6 key points in the	10 pedestrian crossings in place in 07-08, 3 of these associated with improving pedestrian access to Field End School (which is within the AQMA) as part of their School Travel Plan.	Local Authority Led	Borough Transport Strategy

					Original	Progress			Local	Responsi-
F	Ref.	Action Pl	an Measu	ire	Time-	with	Outcome to date	Comments	Authority	bility
					scale	Measure			Role	Sincy
							Borough, 5 of which are within the	Ongoing improvements,		
							AQMA.	pedestrian crossings		
							20mph zone put in place at Oak	installed across the		
							Farm Estate.	Borough included 4 new		
							Canal towpath improvements for	ones at schools with		
							pedestrians	school travel plans		
							Ongoing throughout the Borough	SPD – see above		
							via funding from TfL including the			
							provision of more conspicuous			
							zebra crossings to ensure			
							pedestrian safety.			
							Improvements made for pedestrians			
							along the Great Union Canal in			
							West Drayton under the LIP.			
							Improved pedestrian access			
							measures are also planned to link			
							with the school travel programme			
							(see Action 1.06).			
							See 1.06 regarding continuation of			
							the successful Walk on			
							Wednesdays scheme for schools			
							and related activities.			
1.	06.	Introduce	more	Safe	2010	Ongoing	Air quality packs sent to all schools	Over 1,500 pupils are now	Local	Borough

		Original	Progress		_	Local	Responsi-
Ref.	Action Plan Measure	Time-	with	Outcome to date	Comments	Authority	bility
		scale	Measure			Role	·
	Routes to School			in the Borough.	registered under the	Authority	Transport
	throughout the Borough			Integration of air quality packs	Bikeability scheme aimed	Led	Strategy
	with special regard to the			information into the school	at encouraging safe		
	schools within the highest			curriculum to be put in as a key	cycling to school;		
	exceedence areas.			requirement for Hillingdon School	The Walk on Wednesday		
				Travel Plans.	(WOW) scheme now has		
				Production of free bespoke "Don't	40 schools across		
				choke us" signs for schools in the	Hillingdon participating		
				Borough, 39 schools participated.	regularly that includes		
				Timescales - 36% schools with plan	15,000 children. This is		
				by 2006; 57% by 2007; 78% by	the 2 nd highest number of		
				2008, 100% by 2009.	schools participating in		
				All schools now have Travel Plans.	London and has achieved		
				Hillingdon have developed a Feet	an overall modal shift (for		
				First campaign (include posters)	WOW alone) of 14% as		
				designed to promote the walking to	opposed to the national		
				school message throughout the	average of 6%.		
				Borough.	Healthy Hillingdon are a		
				Hillingdon has achieved an average	part of the School Travel		
				17% modal shift away from car	Plan Steering Group that		
				across the Borough for school	has ensured the links are		
				journeys	made between health and		
				The school travel programme	reducing car use on		

Ref.	Action Plan Measure	Original Time-	Progress with	Outcome to date	Comments	Local Authority	Responsi-
		scale	Measure			Role	bility
				continues with improved pedestrian	school journeys.		
				access measures programmed	Walk on Wednesdays		
				under the LIP throughout the	initiative, Hillingdon has		
				Borough on a rolling programme to	highest number of schools		
				2013-2014. In addition the Borough	involved across all of		
				is giving substantial support to	London, developing a CD		
				programmes such as Walk on	resource aimed at primary		
				Wednesdays, prizes for promotions	and secondary schools,		
				and resources for awareness	local air quality – includes		
				raising of School Travel Plans as	local air quality, climate		
				well as small engineering measures	change, healthy living		
				such as safety fencing and waiting			
				restrictions around individual			
				schools.			
				Schools Cleaner Air Zone: Along			
				with Camden, K&C and City of			
				London, Hillingdon were successful			
				in a Defra bid for this project. The			
				project is also match-funded by			
				borough LIPs and the GLA. Each			
				Borough is currently identifying their			
				priority schools. The project will aim			
				to use a range of measures aimed			

Ref.	Action Plan Measure	Original Time- scale	Progress with Measure	Outcome to date	Comments	Local Authority Role	Responsi- bility
				at reducing emissions from selected schools and their surroundings and adding protection to schoolchildren from nearby congested road networks. Continuation of the successful Walk on Wednesdays for all borough schools, active promotion in regard to supply of safe walking and cycling equipment such as reflective vests, pedometers, bike bells. Road safety events and an annual ceremony to celebrate the schools who have achieved a modal shift through their School Travel Plans.			
1. 07.	Ensure Green Travel Plans are a requirement for all businesses (new and existing) employing more than a specified number of people in the Borough.	2007	Ongoing	Specific air quality targets to be included in all business travel plans as a requirement under the LDF framework, included in draft out for consultation in Feb 07. There are 3 car clubs operating successfully in Hillingdon - all associated with new planning	See 1.04 for details on new developments; Follow up to freight audits at Industrial Business Areas has included face to face interviews with 26 separate companies promoting the	Local Authority Led	Planning Department

Ref.	Action Plan Measure	Original Time-	Progress with	Outcome to date	Comments	Local Authority	Responsi- bility
Ref.	Action Plan Measure	_		developments, developed as part of s106 agreements. Hillingdon are proactively working on the creation of area-wide travel plan partnerships. The first partnership includes Brunel University, Hillingdon Hospital, The Chimes shopping Centre and Uxbridge College. Implementation is anticipated in 2011-2012. Funded by WestTrans, a partnership of the West London Boroughs of Hillingdon, Hounslow, Ealing, harrow, Hammersmith and Fulham and Brent, Hillingdon now	establishment of travel plans. SPD see above See 7.07 regarding		•
				have a travel plan monitoring officer for one day a week. This gives the ability to audit and enforce travel plans in Hillingdon. The travel plan database is currently being updated, the development of a monitoring mechanism for compliance and enforcement will be			

Ref.	Action Plan Measure	Original Time- scale	Progress with Measure	Outcome to date	Comments	Local Authority Role	Responsi- bility
				the next stage of the project.			
1. 08	Improve access to, and	2008	Ongoing	Car share promotion in Hillingdon	Project commissioned to	Partnersh	West London
	quality of, public transport			People including Heathrow	integrate sustainable	ip	Air Quality
	travel information on a			Carshare.	travel links into the		and
	regional basis both inside			Mobility Management Group under	Heathrow Airwatch		Transport
	and outside the GLA			HATF set up to address access to	website;		Group
	boundary.			Heathrow, plans to extend this	The opening of T5 on 27 th		
				regionally.	March 2008 has provided		
				Hillingdon is a member of the group.	better connectivity with		
				Funding has been received for	regards to local access to		
				08/09 via West Trans for the	the airport.		
				integration of sustainable travel			
				information into the West London air			
				quality website			
				West London walkit.com - internet			
				based low pollution walking routes			
				launched in Nov 2008;			
				Hillingdon sit on the Mobility			
				Management Group of the			
				Heathrow Area Transport Forum			
				looking at regional initiatives around			
				Heathrow			
1. 09	Seek to ensure	2008	Ongoing	£228,000 received via BSP for bus	9 key bus priority routes	Partnersh	Borough and

F	Ref.	Action Plan Measure	Original Time- scale	Progress with Measure	Outcome to date	Comments	Local Authority Role	Responsi- bility
		improvements in overall public transport service (facilities, cleanliness, safety, frequency, reliability) across the Borough and West London, and particularly in declared AQ Management Areas AQMAs.			priority measures, includes 222, E7 routes both of which are within exceedence areas within AQMA. £183,750 received via BSP for bus stop accessibility projects at 30 stops across the Borough. Improvements have been identified throughout the Borough for measures to improve bus priority and journey times. Improvements via the LIP currently being made to Uxbridge station for better access and real time information provision. Plans in place also for improvements to Hayes station.	and 10 specific bus stops received funding via BSP for improvements. Link also to action 1.12. 660k for bus priority via BSP; SPD – see above The improvements for the Mahjacks/Cedars roundabout in Uxbridge will help address a traffic congestion/air quality hotspot.	ip	West London Transport Strategy
1.	10.	Improve the north-south public transport provision in the Borough.	2010	Ongoing	Potential for a Community Transport link to be explored in the poor air quality areas around West Drayton/Yiewsley/Hayes – funding to be sought via BSP. Trialling of low emission vehicle for HCT	Feasibility study commissioned to asses potential for a flexible community bus around the south of the Borough in the poorest air quality areas, seeking to replace	Partnersh ip	Borough Transport Strategy

Ref.	Action Plan Measure	Original Time-	Progress with	Outcome to date	Comments	Local Authority	Responsi-
TOI.	/tottoff Figure Wedsure	scale	Measure	Outcome to date	Comments	Role	bility
				The needs assessment study to	current short car journeys.		
				inform the introduction of a	If viable the contract for		
				Community Bus service is currently	the bus will include low		
				being commissioned. It is	emission technology as		
				anticipated that this service could	one of the criteria.		
				help address the ageing	Finalisation of Report into		
				population's changing needs	Feasibility of Community		
				The issue of good north-south links	Bus – this looks to provide		
				is key to improving modal shift	transport for hard to reach		
				within Hillingdon. Hillingdon specific	groups in the south of the		
				projects such as the Community	Borough providing links to		
				Bus and concept of a north-south	schools, shops, doctors		
				Fast Bus are now being taken	surgeries, community		
				forward.	centres. Hillingdon will be		
				A more strategic approach has	investigating potential		
				developed for public transport	funding sources to take		
				provision in the Borough and	this forward.		
				beyond in the lifetime of the AQAP.	This issue has moved		
				Further improvements are being	from an aspiration to a		
				taken forward where funding	key priority in west		
				permits.	London and is one of the		
				Improvement of north-south links	key themes emerging in		
				remains a priority in LIP2	the mayoral West London		

Ref.	Action Plan Measure	Original Time- scale	Progress with Measure	Outcome to date	Comments	Local Authority Role	Responsi- bility
1. 11.	Support multi modal travel by further development of public transport interchanges for rail/cycle/bus/walking both within Hillingdon and the West London area.	2008	Ongoing	Station Access Improvements carried out in 2006/07 at: Northwood; Northwood Hills; Eastcote (Step 1); Ruislip. Ruislip and Eastcote step 2 Grand Union Canal — 1 st stage improvements at Northolt Improvements to Uxbridge station are in place to improve the pedestrian desire lines within the station and to improve bus access. The current taxi rank will be relocated to the front of the station to ease congestion The need for improvements to the public transport interchange in Hayes has been recognised and there is a programme of work aimed	Transport Strategy. Improvements were taken forward by West Trans BSP funding with an allocation of £550,000 for implementation of improvements to station access throughout the West London region Via BSP and West Trans funding .	Partnersh	West London Air Quality and Transport Group

Ref.	Action Plan Measure	Original Time- scale	Progress with Measure	Outcome to date	Comments	Local Authority Role	Responsi- bility
				at improving the public realm and increasing sustainable travel modes including roll out of Legible London walking information in Hayes and the interchanges with the Grand Union Canal. There is a regeneration programme being put in place for including a re-design of the current Hayes Town Centre including, potentially, the local road network. Consultants have been commissioned to undertake an air quality assessment of the final design in order to ensure any air quality impacts arising from a change in the road network are effectively managed.			
1. 12.	Encourage development of efficient and high quality bus corridors.	2008	Ongoing	Improvements to 9 bus priority schemes in the AQMA along high AQ exceedence roads Via BSP and West Trans		Partnersh ip	West London Air Quality and Transport Group
1. 13.	Investigate potential for	2007	Complete	No progress to date, however	This measure has been	Partnersh	Transportatio

Ref.	Action Plan Measure	Original Time- scale	Progress with Measure	Outcome to date	Comments	Local Authority Role	Responsi- bility
	more night buses.	scale	Measure	improvements are being sought by Hillingdon for Safer Travel at Night initiatives. These would be required to be in place before proposals for night buses could be safely assessed. Initiatives include ensuring the adequacy of lighting, paving, street furniture, signage and CCTV at Eastcote, Uxbridge and Ruislip stations and involvement in a Safer Travel campaign across the Borough.	for implementation. Air Quality Action — monitor success of funding bid. The TfL website now has details of all night buses operating in west London. Of particular use to Hillingdon are the N207	Role	n Team
1. 14.	Investigate the feasibility of working with relevant	2007	Complete	Details of night bus services in West London now available at http://www.tfl.gov.uk/tfl/gettingaround/maps/buses/pdf/nightbuseswestlondon-13834.pdf . Now 3 dedicated night buses (N7, N9 and N207) and 6 other 24 hour services (81, 105, 111, 140, 285 and Oxford Tube) No progress to date, however this was highlighted in the consultation	•	Lobbying	West London Authorities

		Original	Progress			Local	Responsi-
Ref.	Action Plan Measure	Time-	with	Outcome to date	Comments	Authority	bility
		scale	Measure			Role	Dility
	stakeholders to subsidise			on the LIP as a measure to take	Transportation team		
	bus, train and			forward.	opportunities to lobby for		
	underground fares in			The introduction of Crossrail will	subsidised travel.		
	order to achieve			improve the frequencies of trains	7% increase in Heathrow		
	significant modal shift.			from central London through	express fares		
				Hillingdon with an interchange for	The Government have set		
				access to Heathrow - to date there	up High Speed Two as a		
				is no details on the ticket coatings	company to investigate		
				as to whether this will support	the potential for High		
				substantial modal shift;	Speed rail. Hillingdon are		
				Heathrow Express remains a highly	requesting to be actively		
				priced service although the	engaged as part of the		
				introduction of the stopping service	process and have written		
				Heathrow Connect has provided a	asking for the key		
				cheaper service;	objectives of establishing		
				There are no details of pricing	modal shift from car and		
				structures as yet for either Crossrail	short haul air to be key		
				or Airtrack	areas for investigation.		
					The HS2 company has		
				It has been concluded that in the	published a preferred		
				current economic climate there is no	route for a new high		
				feasibility of further subsidisation of	speed route to		
				public transport fares.	Birmingham. The report		

	Ref.	Action Plan Measure	Original Time- scale	Progress with Measure	Outcome to date	Comments	Local Authority Role	Responsi- bility
						has indicated a lack of business case for a direct link to Heathrow.		
•								

F	Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
P	ackage							
2		Tackling Through Traffic						
2	. 01.	Introduce Home Zones/20	2007	Ongoing	2006/07 - new Home Zone in Oak	The purchase of mobile	Local	Transportatio
		mph in residential areas			farm, Hillingdon.	traffic counters, as part of	Authority	n Team
		subject to significant			New Home Zone introduced along	an air quality funding bid	Led	
		amounts of through traffic			Coldharbour Lane - Borough road	from TfL, has meant that		
		that should use alternative			with high air quality exceedences	traffic calming schemes		
		routes.			New one in Hayes	are now underpinned by		
					Consideration of further site in	traffic count data to		
					Barnhill.	ensure the objectives of		
					The villages suffer from intrusion	the schemes are realised		
					from road traffic, mainly caused by	in practice.		
					rat-running and HGVs using the			
					narrow residential streets to access			
					the A4 and the airport area. Traffic			

Re	f.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
					calming schemes are currently			
					being considered and measures to			
					manage HGVs will form part of a			
					future workstream.			
					See also 2.06 regarding traffic			
					around Ruislip Gardens Station.			
2.	02.	Support the West London	2007	Complete	2006 - the Council Cabinet	Project commissioned via	Local	Planning and
		Transit Scheme project if			resolved to be an objector to the	West London AQ group to	Authority	Transportatio
		appropriate.			West London Tram Scheme, the	examine potential	Led	n
					Borough wish for a connection at	alternatives for traffic flow		
					Hayes to improve access to	improvement along the		
					Heathrow plus extension out to	Uxbridge Road.		
					Denham not considered as part of	Scheme withdrawn by		
					the current scheme.	GLA		
					No further action to be undertaken.			
2.	03.	Ensure the provision of	2007	Ongoing	Electronic signs erected for	A study of the Council's	Local	Highways
		sufficient signage and			Uxbridge town centre.	car parks has identified	Authority	Department
		details of spaces for			18 car parks in Hillingdon have	the potential areas for the	Led	
		public car parks.			now achieved Park Mark standard	inclusion of electric		
						vehicle charging bays to		
						give a range throughout		
						the Borough		
						2 electric charging points		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
					have been installed in the		
					Civic Centre Car Park.		
					Charging facilities have		
					been installed in a further		
					10 car parks as part of a		
					trial with Ford/SSE		
					involving local residents.		
2. 04.	Investigate the creation of	2007	Complete	No progress.	Air quality Action - to	Local	Hillingdon
	Clear Zones.			GLA advise to look into clear zone	seek information from	Authority	Transportatio
				- consultation letter	Camden on condition and	Led	n Team
				Initial feasibility discussions	criteria for Clear Zone.		
				suggested that this would not be of			
				significant benefit in Hillingdon.			
2. 05.	Develop best practice	2005	Ongoing	2006/07 – WLAQ group to	Taken forward for new	Partners	West London
	advice to ensure air			establish communication strategy	developments via	hip	Air Quality
	quality assessments are			for guide.	planning process;		and
	made for proposals for			Communication Strategy in place,	Network Monitoring		Transport
	new transport			workshop for air quality and	Strategy – see highlight		Group
	infrastructure and			transport officers in April 2007,			
	changes to traffic			presentation at Bristol Conference	Now an integral part of		
	management.			in March 07.	the planning process		
				Implemented via the pre-planning			
				advice note given to developers			

Re	f.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
					requesting this information prior to			
					submission of a planning			
					application			
					Transport Tool kit: Following on			
					from the development of the			
					Hillingdon Ready Reckoner			
					emissions toolkit, an excel-based			
					tool for assessing the emissions			
					impacts from traffic management			
					measures, Hillingdon successfully			
					led a joint Defra bid with Leicester			
					City Council to extend and			
					incorporate a further range of			
					schemes into the database. The			
					initial workshop demonstrating the			
					use of the tool has been held at			
					Leicester and the project team is			
					currently identifying relevant			
					schemes for pre and post			
					implementation emissions			
					assessment.			
2.	06.	Work in partnership with	2006	Planning	Recommendations to be given to	See 2.02	Partners	West London

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	У
		le	Measure			Role	
	TfL to implement		phase	WLTS for implementation via WL	Via the LIP funds	hip	Air Quality
	schemes along the high			BSP funding.	automatic traffic counters		and
	exceedence corridors			To be taken forward by West	were placed on the		Transport
	designed to smooth traffic			Trans, air quality emission	Borough's roads with		Group
	flows.			information will be provided via	most significant AQ		
				TEEM, a transport emissions	problems.		
				model under development by the	TfL – looking at drawing		
				WLAQ Cluster group	up transport and air		
				TEEM is currently being used to	quality joint		
				assess the freight corridors	implementation plans, will		
				throughout west London	have input into the West		
				TEEM now being configured for	London sub-region plan;		
				use with a GIS interface for ease of			
				final use. Scenario testing			
				capabilities also being developed.			
				Under LIP the poor air quality			
				areas around West Drayton High			
				Street and Porters Way, and the			
				Heathrow villages, have been			
				identified for improvements to			
				reduce congestion, rat running,			
				HGV movements etc. (as			
				appropriate to each case).			

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				A project looking along the whole			
				Uxbridge Road corridor from			
				Uxbridge to Southall is being			
				undertaken. It will identify the traffic			
				management issues along the			
				corridor which includes interaction			
				with nine separate shopping			
				parades and busy bus routes. This			
				will form the basis for a scheme of			
				works aimed at improving the			
				public realm and smoothing the			
				flow of traffic. It is anticipated that			
				this project will help address the			
				small pockets of air quality			
				exceedence that exist at several of			
				the junctions along this corridor.			
				Improvements are to be made to a			
				key road link between south West			
				Drayton and the main Stockley			
				Bypass (A408). It is anticipated			
				that the creation of better road			
				alignment and better operation of			
				the roads will result in helping			

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				reduce traffic volumes on Yiewsley			
				High Street which contribute to the			
				areas of poor air quality along the			
				High Street.			
2. 07.	Improve coordination of	2007	Ongoing	Traffic Manager in post (Apr07).	Hillingdon now have a	Hillingdo	West London
	road works and provide				network management	n	Air Quality
	more effective signing				plan for Borough roads.		and
	around them.				Improvements in air		Transport
					quality have been		Group
					incorporated as a key		
					objective.		
					Network Monitoring		
					Strategy – see highlight		
2. 08.	Investigate use of high	2007	In	Planning and the Strategic Road	CO2 emissions will be	Partners	West London
	occupancy vehicle lanes		progress	Network – document on DfT	factored in to DMRB.	hip	Air Quality
	and freight priority			website - gives clarity to HA role,	M4 junction 4		and
	schemes along the major			general presumption that there will	improvements now		Transport
	exceedence corridors			be no capacity enhancements on	complete, ongoing traffic		Group
	such as the M4, A4, A40			routes of strategic national	speed and flow monitoring		
	and A312.			importance purely to accommodate	will help to quantify the		
				new developments, in any case	success of this		
				would be subject to stringent	improvement		
				environmental assessment.	HA update meeting:		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				Heathrow Junction 4 M4	HA as an organisation		
				improvements total completion by	look to use video-		
				February 2007. Should give	conferencing wherever		
				beneficial impact on air quality from	possible;		
				reducing queue lengths.	New version of DMRB		
				Study due to start in early 2007 on	now delayed to Dec 2009;		
				what will be needed to cope with	There will be integrated		
				the impact of T5 opening.	demand management for		
				Any improvements to the M4 will	whole of M25;		
				come via TVMMS measures e.g.	Tender out for looking at		
				speed limits, ramp metering etc.	managed motorway		
				Decision in Spring 2007 as to	measures for M4 from		
				which measures will be taken	Junction 3-12		
				forward.	New HA strategy refers to		
				Meeting with HA and AQ officers	"working towards meeting		
				Feb 2010. The concept of hard	the AQ objectives" - is		
				shoulder running will be	this in line with joint		
				investigated along the M4 junctions	agreement between DfT		
				3-12. Pilot studies have indicated a	and Defra to meet the AQ		
				"neutral" result with regards to local	limits?		
				air quality although caution must			
				be given to any increases in			
				capacity resulting from this change			

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				in traffic management. Hillingdon			
				are participating in the HA diffusion			
				tube study to help inform			
				understanding on pollution			
				dispersal from motorway network.			
2. 09.	Investigate the use of light	2010	Complete	It had been hoped that PSDH	The Adding Capacity	Partners	West London
	rail/tram schemes along			would consider the A4, but this	report did not specifically	hip	Air Quality
	other high exceedence			was not done.	examine the use of light		and
	corridors such as the A4				rail or trams for air quality		Transport
	and A40.			Concluded that in the current	improvements		Group
				economic climate it is very unlikely	No further work carried		
				that funding would be made	out on this		
				available for such a significant	HEATHROW AIRPORT		
				infrastructure project.	are developing a personal		
					rapid transit system for		
					use on-airport. There may		
					be the potential to expand		
					this type of technology to		
					outside airport use if the		
					trial is successful		
2. 10.	Investigate measures	2007	Planning	Annual meetings with HA. (see	Impact of variable speed	Partners	West London
	such as variable message		phase	2.08)	limits appears to be a site-	hip	Air Quality
	signing to smooth traffic			Ramp metering and variable	specific issue with regards		and

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
	flows on the HA/TfL			message signing being	to impacts of air quality		Transport
	routes M4 and			investigated as part of the M4	improvements.		Group
	surrounding link roads.			junction 3-12 Controlled Motorway	HA to examine on site		
				study	specific basis, if funding		
				See 2.08	received.		
				To date (2011) no further	HA will be investigating		
				developments on variable	these issues on the		
				messaging, ramp metering and	strategic road network.		
				hard shoulder running on the M4.			
				Bus lane has been taken from the			
				M4, though it is unclear whether			
				this is good or bad for air quality.			
				HA will need to be fully involved on			
				action plan measures for the key			
				corridors.			
2. 11.	Investigate use of speed	2007	In	Annual meeting with HA (see 2.08)	Study on M1 in Sheffield,	Partners	West London
	limits on major roads at		progress		main air quality issues	hip	Air Quality
	the optimal level for NOx			To date, only major change is loss	from congestion in peak		and
	and PM10 emissions for			of the bus lane on the M4, too	hours so results not		Transport
	the current traffic profile.			soon to quantify effect.	conclusive, free-flowing		Group
					traffic would show better		
					results. In the M4 area		
					this measure may be part		

Ref.		Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
						of recommendations from		
						TVMMS on measures to		
						take forward although the		
						impact of lowering speeds		
						will be site specific		
						dependent on the air		
						quality issues of the		
						particular road.		
						M20 variable speed limits		
						to be assessed subject to		
						funding		
						HA will be investigating		
						these issues on the		
						strategic road network		
						As above		
2. 1	12.	Identify air quality	2009	Ongoing	10 more congestion hot spots	Continued development of	Partners	West London
		congestion-related			looked at for traffic management	the West London Traffic	hip	Air Quality
		hotspots throughout West			measures to smooth traffic flow, 4	Emissions Modelling tool		and
		London and the			of these are in the AQMA.	(TEEM) – project		Transport
		appropriate measures for			Congestion/air quality hotspots	commissioned to examine		Group
		delivering improvement in			being addressed in Uxbridge,	impact on emissions of		
		both congestion and air			Ruislip and via whole corridor	different transport		
		quality e.g. new access			enhancements to the Uxbridge	measures e.g. tighter LEZ		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
	road from the A40 to			Road.	standards,		
	Ruislip industrial areas.			The combined use of traffic	implementation of a bus		
				counters and air quality information	lane, effect of queuing at		
				will ensure a more focussed	junctions		
				approach to dealing with	New access road to South		
				congestion hotspots	Ruislip being investigated		
				LIP funding has been used to	via Hillingdon Freight		
				develop an emissions database for	Study		
				the Borough, which in turn has			
				been developed into a tool for	Hillingdon and Heathrow		
				assessing the effectiveness of	Hotspot Project: An		
				transport measures for air quality	extension of time for this		
				improvement. A traffic calming	project has been agreed		
				scheme around a school in	with Defra. Due to		
				Northwood has already been	difficulties in obtaining key		
				assessed using the tool.	traffic data inputs from		
				Funding gained for Hotspot project	project stakeholders, an		
				focused on the A40, A312 and	agreed deadline has been		
				Heathrow areas.	given of August 2013.		
				A banned right hand turn from a	One dis-benefit of the		
				London Underground depot in the	delay has been to		
				area of Ruislip Gardens station	postpone the review of		
				had led to increased HGV	borough action plans		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				movements through residential	which would have been		
				areas as drivers attempt to head	influenced by the		
				south to access the A40. A	conclusions from this		
				scheme has now been agreed for	project.		
				a set of controlled traffic signals to			
				allow the HGVs to legitimately turn			
				right towards the A40. This will			
				lead to reduced emissions as the			
				route is shorter and remove HGVs			
				from residential streets.			
2. 13.	Support rail projects that	2010	Ongoing	Crossrail and Airtrack both	Rail % to Heathrow:	Lobbying	West London
	have the potential effect			identified in the Adding Capacity	2004 –9.3;		Transport
	to cut through traffic e.g.			consultation for improvements in	2005 – 9.6;		Group
	Crossrail and extending			access to Heathrow. Airtrack is at	2006 – 8.8 (three quarters		
	the Underground system			early stages of feasibility and will	only).		2M
	(e.g. Central Line to			require funding.	2M High Speed North		
	Uxbridge).			Improvements are in place for an	proposal, Government		
				upgrade to the Metropolitan line to	High Speed Two		
				Uxbridge with regard to fleet and	Crossrail – will help		
				signalling, Hillingdon continue to	access to Heathrow from		
				lobby for better tube links eg	London but as it will		
				extension of the Central line to	replace the current		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				Uxbridge	Heathrow Connect there		
				The publication of the HS2 report	will be no great overall		
				has defined the first stage of a high	benefit with regards to		
				speed rail link to Birmingham.	modal shift to Heathrow;		
				Although a high speed rail network	Airtrack will help access		
				for the UK with appropriate	to the south west of the		
				European links is supported, the	airport with regard to		
				preferred route and the	providing an alternative to		
				narrowness of the remit of HS2 is a	the car from this south-		
				distinct disappointment. Hillingdon	westerly side of the		
				will continue to lobby for an	airport;		
				appropriate national framework for			
				high speed rail and a route that	The Council is taking an		
				captures the best environmental	active part in		
				advantages.	consultations relevant to		
				HS2 - the route traverses the	this measure (e.g. on		
				borough. The consultation also	HS2)		
				includes the principle of a			
				Heathrow link. Given that the			
				documentation shows no strong			
				economic case for a link to			
				Heathrow the borough is			
				concerned that a direct link may			

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				simply fuel the call for more			
				capacity at the airport. In addition,			
				there is a general concern that			
				should domestic or short haul			
				flights be switched to rail, without a			
				policy in place to freeze the slots			
				lost, these may simply be replaced			
				by international, more polluting,			
				higher passenger number planes			
				that would add to local air quality,			
				extra road traffic, more CO2.			
				HEATHROW AIRPORT have			
				withdrawn the Transport and			
				Works Act application that would			
				have facilitated the progression of			
				Airtrack.			
				Hillingdon responded to the HS2			
				consultation in July 2012. Concern			
				was expressed relative to a			
				number of issues, including the			
				need for Government intervention			
				to prevent slots freed from			
				passenger transfer to rail being			

Re	f.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
					used for more polluting services. It			
					was also noted that information			
					was needed on precise routes of			
					spur lines and interchanges in			
					order to assess whether there			
					would be detrimental effects on			
					local air quality.			
2.	14.	Work in partnership to	2007	Planning	There has been limited potential to	Ambiguity in Adding	Lobbying	DfT
		investigate use of fiscal		phase	take this forward. Limitations on	Capacity consultation.		
		measures, such as road			various consultations in connection	Reference is made only to		
		pricing, for reducing traffic			with Heathrow have meant that it	the potential for road		
		on major road networks.			has not been debated in detail.	pricing to be a part of a		
						surface access strategy if		
						further expansion is		
						granted.		
						Not looked at in Heathrow		
						Decision.		
2.	15.	Consider establishment of	2006	Planning	Suggested at HATF in June	Still not set up	Lobbying	West London
		cross-agency regional		phase	meeting.			Air Quality
		group to address air			Discussed as AOB at December			and
		quality issues with			HATF meeting.			Transport
		regards to roads.			Group approval, Chair of Steering			Group
					Group to action.			

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
Package							
3.	Promotion of Cleaner Vehic	le Technolo	ogy				
3. 01.	Develop and implement	2006	Ongoing	Updated assessment from Clean	Driver training money	Local	Hillingdon
	an Action Plan via the			Vehicle Programme in November	secured via BSP for 2008-	Authority	Fleet
	BAA Heathrow Clean			2006.	09	Led	Management
	Vehicle Programme to			Fleet emissions inventory	Driver training to be		Team
	make improvements in			commissioned March 2007.	incorporated into Council		
	the Council vehicle fleet			Heathrow Air Quality Strategy	policy, currently seeking		
	with regard to reducing			2011-2010 Actions 2.13 to 2.18	to include reducing		
	emissions.			address emissions from landside	emissions as an integral		
				vehicles using the airport,	part of the policy.		
				introducing emission standards,	Driver training		
				use of low and zero emission	implemented across all		
				vehicles, etc.	Council drivers, fleet		
				With respect to the Hillingdon	manager currently		
				Council Fleet, 8 new refuse	evaluating self-		
				vehicles were bought in December	assessment scheme for		
				2011, all to the Euro V standard.	future CVP award		
				Another 26 vehicles have been	The CVP evaluation is		
				retro-fitted to meet the tighter	currently being assessed		
				London LEZ standard in force from	by HEATHROW		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				January 2012. All now meet the	AIRPORT.		
				Euro V standard and are fully			
				compliant with the LEZ. The			
				Council is also active in trialling			
				electric vehicles.			
3. 02.	Encourage local	2007	Ongoing	Hillingdon Freight Meeting in June	Following on from the	Local	Hillingdon
	businesses and freight			06.	freight audits, 26 face to	Authority	Transportatio
	operators in Hillingdon to			Follow on from freight audits of	face interviews with on-	Led	n Team
	sign up to the Clean			Uxbridge and South Ruislip	site companies have been		
	Vehicle Programme and			business areas - production of fact	carried out to encourage		
	develop and implement			sheets of key points found from the	sign up to WLFQP and		
	action plans for reducing			studies for dissemination to the	the establishment of		
	emissions.			businesses, production of site	company travel plans.		
				specific public transport information	May need to be continued		
				brochures for staff at the 2 sites.	outside the WLFQP		
				Regional funding received for	because of funding		
				audits of Yiewsley and West	issues.		
				Drayton business areas, air quality			
				assessment integral part of project.			
3. 03.	Provide training for local	2006	Ongoing	Community transport ensure all	Potential to roll this out	Local	Hillingdon
	authority drivers to			drivers are trained, awareness of	more widely, e.g. to bus	Authority	Fleet
	minimise emissions, and			smooth driving and vehicle	operators.	Led	Management
	consider opening training			maintenance integral part of	ENV bid put in via BSP for		Team

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
	opportunities to other			training.	driver training. Bid		
	drivers working for			Hillingdon are a Bronze member of	successful for financial		
	businesses in Hillingdon.			the Freight Operators Recognition	year 08/09		
				Scheme (FORS). This is run by TfL	All Hillingdon drivers now		
				and the aims include:	trained, also have in-		
				 Drivers and driver 	house trainers. Hillingdon		
				management	will investigate the		
				Vehicle maintenance and	potential to open this up		
				fleet management	to local businesses		
				Transport operations			
				Performance management			
				Heathrow Air Quality Strategy			
				2011-2010 Action 2.11 commits to			
				eco-driving training for all drivers			
				who require an airside permit.			
3. 04.1.	Ensure the	2006	Ongoing	Article in Hillingdon People.	Rolling out of turn off	Local	Hillingdon
	implementation of the			Free school signs offered, 39	engine signs in the	Authority	Transportatio
	Idling Vehicles			schools requested them with a	Council's owned premises	Led	n Team
	Regulations.			total of 88 signs being sent out.	to be explored in 08/09		
				Funding applied and received via	Link to 3.03		
				BSP for driver training, will include	Switch off when idling part		
				switching off when idling.	of driver training scheme		
				TfL now setting up 'Report Idling			

Re	ef.	Action Plan Measure	Original Timesca le	Progress with Measure	Outcome to date	Comments	Local Authority Role	Responsibilit y
					Vehicles' Website, which Hillingdon will disseminate.			
3.	04.2.	Actively promote the use of the Dirty Diesel Hotline for reporting smoky vehicles spotted in Hillingdon.	2006	Ongoing	To be incorporated into the London No Idling Campaign by TfL		Local Authority Led	Hillingdon Transportatio n Team
3.	05.	Consider the recommendations of the London Low Emission Zone Feasibility Study jointly with the GLA, ALG and TfL.	2006	Completed	Cabinet report on LEZ submitted, overall support but with more information needed on the impact upon small businesses and minibus users such as schools, community groups etc.	LEZ now in force, signs erected around Hillingdon as an outer Borough. Success will be monitored via TfL	Local Authority Led	Cabinet
3.	06.	Install signs in waiting areas of Council premises, bus garages, coach stations and major leisure venues, etc. advising drivers to switch off engines when stationary.	2006	In progress	Article in Hillingdon People advising of legislation and air quality impacts of idling vehicles. To be tied in with London No Idling Campaign.	Funding applied and received via BSP for signs for next year See 3.04 Insufficient support for signs, project re-allocated to mobile traffic counters	Local Authority Led	Highways
3.	07.	Lead the way in trialling new technology, where	2007	Ongoing	Trial of electric SMART car for use as a pool car.	Feasibility study for flexibly routed bus service	Local Authority	Hillingdon Fleet

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
	appropriate, and act as a			Demo requested of Modec electric	 if proved feasible will 	Led	Management
	point of information for			van. Hillingdon taking part in Ford	look to incorporate		Team
	businesses and other			Electric Vehicle Pilot Project. Work	environmental criteria on		
	stakeholders in Hillingdon			in partnership with the Ford Focus	low emissions into		
	for cleaner vehicle			Battery Electric Vehicle (FFBEV)	procurement contract;		
	technologies, national			consortium to plan and implement	Presentation to GLA Best		
	schemes and grant			the trial of 5 Ford Focus electric	Practice workshop on		
	systems for the use of			vehicles across the Borough during	fleet emissions inventory.		
	alternative fuels.			2010 and 2011. The consortium	Electric charging points		
				will invest in EV charging	installed in the Council's		
				infrastructure at approximately 20	car park and 2 other car		
				sites across Hillingdon. Qdell/LHR	parks		
				Express Cars have received the	Electric Pool car to be		
				BS 14001 accreditation, supported	trialled in environmental		
				by Hillingdon.	services;		
				Trials of electric cars in the	Prius hybrid on trial in		
				Council's fleet are now underway,	Children and Families		
				with 2 vehicles, one for Car Park	unit;		
				Services and the second by the	Electric cars on trial		
				Events team. Both replace diesel	throughout Hillingdon		
				vehicles.	residents as part of Ford		
				The Borough is working with Ford	Trial		
				and SSE on a project to trial	See 7.07 regarding		

Re	f.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
					electric vehicles amongst local	Mayor's Air Quality Fund		
					residents.	application.		
3.	08.	Participate in the London-	2007	Complete	London wide programme has	Interest to participate in	Local	Vehicle
		wide Vehicle Emissions			come to an end.	any future programme of	Authority	Emissions
		Testing programme.			No further funding is imminent.	this type, but measure will	Led	Testing
					Will continue to monitor potential	not be taken forward until		Steering
					for taking this up again.	future funding is agreed.		Group
3.	09.	Investigate the provision	2010	In	Now linked to Action 1.06, and	School Travel Plans, to	Local	Fleet
		of low or zero emission		progress	specifically the Schools Cleaner Air	date, have tended to	Authority	Management
		buses for schools within			Zone Project. The approach now	focus on alternatives such	Led	Team
		the high exceedence			being followed differs to the	as cycling and walking.		
		areas.			original measure, though is more			
					strategic in outlook, and better			
					linked to action 1.06. Since the			
					time of action plan adoption there			
					has of course been some			
					replacement of buses etc. with			
					newer vehicles, which will be less			
					polluting than those using the			
					Borough at the time the AQMA was			
					declared.			
3.	10.	Focusing on areas and	2010	Ongoing	Implemented via LEZ	Links into 2.01 – use	Local	Hillingdon

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
	corridors of high				experience from that to	Authority	Transportatio
	exceedence within				inform more widespread	Led	n Team
	residential areas,				implementation especially		
	investigation into the				along corridors?		
	banning or restricting of				Taken forward via LEZ		
	traffic, or particular types						
	of traffic, from identified						
	roads.						
3. 11.	Investigate the potential	2006	Complete	Concluded that this was not		Local	Sustainability
	for discounts for residents			possible under the current		Authority	Steering
	with low emission vehicles			economic climate.		Led	Group
	in Parking Management						
	Areas.						
3. 12.	Develop sub-regional Bus	2010	Ongoing	Implemented via LEZ	The Heathrow Bus and	Partnersh	West London
	Quality Partnerships				Coach Strategy,	ip	Air Quality
	focussed on addressing				published in 2007, has		and
	the contribution of buses				incorporated reducing		Transport
	and coaches to				emissions and using low		Group
	emissions.				emission technology as a		
					key objective		
3. 13.	Work in partnership for	2010	Ongoing	Heathrow Bus and Coach Strategy	See 3.12	Partnersh	Heathrow
	the provision of low			published, commitment in the		ip	Area
	emission buses in the			Strategy to ensure only LEZ			Transport

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
	West London/Heathrow			compliant vehicles are stipulated in			Forum
	region.			future HEATHROW AIRPORT			(HATF)
				supported contracts.			
3. 14.	Ensure freight	2005	Completed	Freight workshop organised at	Freight Project 07/08 -	Partnersh	Hillingdon
	developments in the West			Hillingdon, ideas from group	this has involved	ip	Transportatio
	London area are			discussion to be taken forward by	improvements to		n Team and
	subjected to an air quality			Hillingdon.	directional signing to		WLFQP
	assessment before			Regional funding received to	protect residential streets		
	implementation.			progress with audits at Hayes and	from unnecessary freight		
				West Drayton Industrial Business	movements;		
				Areas, air quality impact is an	Audits of additional		
				integral part of the audit.	industrial business areas		
					in the south of the		
					Borough carried out in		
					07/08;		
					Face to face interviews		
					(26 to date) with		
					companies from Uxbridge		
					and South Ruislip		
					Industrial Areas to		
					promote the		
					establishment of		
					workplace travel plans.		

Re	f.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
3.	15.	Work with the West	2006	In	Regular attendance at WLFQP	Need to refer back to TfL.	Partnersh	West London
		London Freight Quality		progress	meetings by member of WL AQ	Freight fits well with sub-	ip	Freight
		Partnership to develop a			cluster group, opportunities raised	regional air quality		Quality
		Freight Strategy to include			for joint projects.	implementation plans.		Partnership
		reducing the air quality			Baseline freight map of the West			(WLFQP)
		impact of freight			London area has now been			
		maximising opportunities			produced.			
		to move freight from road			Major signage and HGV routing			
		to other modes e.g.			project undertaken across West			
		canals.			London as WLFQP initiative to			
					reduce illegal movements and			
					encourage HGVs to divert to main			
					transport corridors rather than local			
					roads			
3.	16.	Facilitate the uptake and	2007	In	SWELTRAC, of which Hillingdon is	The West London AQ	Partnersh	West London
		use of alternative fuels,		progress	a member are seeking funding for	group has commissioned	ip	Air Quality
		including water-diesel			electric charging points and	a best practice review of		and
		emulsion. This should			feasibility for a biodiesel project.	emissions technologies		Transport
		include development of			See 3.07.	for cab companies. Key		Group
		appropriate alternative				recommendations from		
		refuelling infrastructure				this will be rolled out to		
		where necessary e.g.				cab firms throughout the		
		charging points for electric				region.		

Re	f.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
		vehicles.				Electric charging points		
						installed in 3 car parks.		
						Best Practice Guide for		
						Reducing Taxi Emissions		
						report sent to PCO for		
						incorporation into London-		
						wide guide		
						See 7.07 regarding		
						Mayor's Air Quality Fund		
						application.		
3.	17.	Lobby national	2005	Ongoing	Website live Feb 2007, at	Need for a more holistic	Lobbying	West London
		government to provide			www.westlondonairquality.org.uk.	approach identified, taken		Air Quality
		incentives through the fuel			Relevant information and	forward via WLA		Group
		duty system for cleaner			consultations will feature on the			
		fuels, inc. further vehicle			website including information on			
		excise duty reductions for			grants and cleaner vehicle			
		retrofitting to smaller			technology.			
		vehicles and increased			West London alliance website now			
		retrofitting grants.			covers this - provides a more			
					complete overview of issues			
					relating to air quality in the area.			
3.	18.	Work to ensure fiscal	2005	Ongoing	London Congestion Charge Zones	Being taken forward by	Lobbying	West London

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
	encouragement of the			and LEZ schemes are led by TfL	TfL.		Air Quality
	adoption of low and zero			therefore not in Hillingdon control.			and
	emissions vehicles			However, discounts are in place for			Transport
	through the provision of			the congestion zone for very			Group
	discounts when entering			low/zero emission vehicles and			
	any proposed LEZ or			through road tax.			
	Congestion charging						
	zone.						
3. 19.	Promote best practice in	2010	Complete	Monitoring was in place close to	Adding Capacity at	Lobbying	West London
	terms of emissions			railway and at nearest residential	Heathrow consultation		Air Quality
	management with the			location. Concern over rail	suggests that emissions		and
	train operators, the			emissions raised by modelling has	from rail (i.e. diesel		Transport
	Strategic Rail Authority			not been borne out by monitored	locomotives) on the Great		Group
	and Network Rail.			data. Not currently a priority.	Western line will reduce		
					significantly in the next		
					decade		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit			
		Timesca	with			Authority	у			
		le	Measure			Role				
Package										
4.	Measures Specific to Heathrow Airport									

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
4. 01.	Continue to oppose any	2010	Ongoing	Air Quality Technical	Hillingdon have sent in a robust	Local	Environment
	further expansion at			Panel (set up by DfT)	response to the Adding Capacity	Authority	al Protection
	Heathrow that leads to			published report in July	consultation. Hillingdon do not	Led	Unit (EPU)
	negative air quality			2006, outlines best	believe sufficient evidence has		
	impacts.			practice methodology for	been supplied to ensure the		
				predicting air quality at	Government can be confident that		
				Heathrow as input to	the EU limit value will be met and		
				PSDH.	maintained in exposure areas		
				Hillingdon active in the,	around Heathrow.		
				now successful,	Legal Challenge lodged by the		
				campaign to stop 3 rd	Council against Government		
				Runway.	decision to build a 3 rd runway		
				The Council has	After public consultation, the		
				continued to follow and	Aviation Policy Framework was		
				contribute the debate on	finalised and published in March		
				further development at	2013. In regards to local air quality,		
				Heathrow, following the	the commitment to achieving full		
				2010 decision against the	compliance with European air		
				3 rd Runway.	quality standards is stated (para		
				Hillingdon along with the	3.47). The policy itself seeks		
				2M group will engage with	improvements via tightening		
				the Howard Davies	international standards to reduce		
				Airports Commission to	emissions from aircraft and		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				ensure that the air quality	vehicles and to work with airports		
				problems of the Heathrow	and local authorities to improve		
				area, and the deficiencies	local air quality. The document		
				of the air quality	states it expects airports to take the		
				assessment for the	responsibility of addressing the		
				'Adding Capacity at	surface access emissions		
				Heathrow' paper issued in	associated with accessing the		
				the earlier debate on the	airport seriously and also		
				3 rd Runway are properly	recognises that with noise		
				recognised	management and mitigation		
					prioritised as the main local		
					impacts, proposals that have		
					significant trade-off issues e.g.		
					reducing noise yet increasing		
					emissions, need to be carefully		
					assessed. This is clearly very		
					important for the Heathrow area.		
4. 02.	Develop system for	2008	Ongoing	Further progress pending	Whilst compliance with the ATM	Local	Aviation
	auditing the ATM limit and			the opening of T5.	limit is a matter for HEATHROW	Authority	Team
	parking provisions for				AIRPORT to manage, the Council,	Led	
	operational T5.			Annual report supplied as	in common with the T5 Inspector,		
				part of T5 planning	regards it as a critical control over		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				conditions with regard to	the environmental impact of		
				ATM limit	Heathrow.		
					Will have to be over-turned if		
					capacity increases given go ahead		
4. 03.	Audit all air quality	2008	Complete	PM continues to be	Complete	Local	Environment
	conditions for the			monitored around the T5		Authority	al Protection
	construction phase of			site. No exceedences of		Led	Unit (EPU)
	Terminal 5.			PM noted at residential			
				locations during 2006,			
				construction now moving			
				to internal fit-out stage.			
4. 04.	Pursue the retaining of	2008	Complete	AQ station at Longford	Complete – agreement to keep	Local	
	the T5 related air quality			and Oaks Road both to	LHR2, London Harlington, Green	Authority	
	monitoring network post			be retained post T5	Gates and Oaks Road as sites for	Led	
	T5 construction.			opening. These are both	continuous monitoring.		
				at key residential	HA will be monitoring highway		
				locations.	capacity issues that may arise from		
				2011-2020 Heathrow AQ	opening of T5 and dedicated spur		
				Strategy commits to	off M25 eg potential for queuing		
				continuation of funding for	back to M4/M25 and merging of		
				LHR2, Oaks Road,	increased M25 traffic on to M4.		
				Harlington sites for NO ₂ ,	ATCs installed on Borough roads		
				particles and (Harlington	leading to airport – in place prior to		

Ref.	Action Plan Measure	Original Timesca	Progress with	Outcome to date	Comments	Local Authority	Responsibilit y
		le	Measure			Role	
				only) ozone. Monitoring results to be made available with 24 hours on Heathrow AirWatch website.	opening to monitor for any increased traffic on local roads.		
4. 05.	Quantify and pursue emission reductions for all new on-airport development.	2007	Ongoing	Mitigation sought for on- airport developments in 2006 e.g. car rentals consolidation car park close to residents in Longford and potential redevelopment of Terminal 2, the Heathrow East terminal, that would include a new on-airport Energy Centre. Planning application to be lodged in 2011 regarding the enabling works to allow the operational change of No Cranford Agreement. Local air quality considerations will	Hillingdon continue to seek emission reductions from on-airport development as part of the planning process. Heathrow East will be the next major project on-airport unless decisions are made sooner with regards to further capacity. Comments were given at the planning application stage with regard to the suggested use of biomass in the accompanying Energy Centre and attention was drawn to the need to address any local air quality issues that may arise for taking this option forward. Several Hotel applications received	Local Authority Led	Aviation Team

Ref	i.	Action Pla	n Meas	ure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
					Timesca	with			Authority	у
					le	Measure			Role	
							form an important part of	since opening of T5. Continue to		
							the assessment of the	pursue air quality improvements		
							operational change.	from all relevant developments as		
							Permission granted in	part of planning process.		
							2011 for construction of a	The information on abatement		
							biomass plant at	technologies for the Heathrow		
							Heathrow, but including	biomass plant could provide useful		
							high level of NOx and	reference material in the		
							particle controls.	assessment of other similar plant.		
							2011-2020 Heathrow AQ			
							Strategy Action 1.10			
							commits to utilising the			
							best practicable solutions			
							to cut emissions from			
							development of future			
							airport infrastructure.			
							Heathrow Air Quality			
							Strategy 2011-2010			
							Action 2.21 commits to			
							using best available			
							techniques for new			
							heating and boiler plant.			
4.	06.	Evaluate	best	practice	2006	Ongoing	August 2005 - Lack of	Recommendation from consultant	Partnersh	Heathrow Air

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
	from European and			resources resulted in	that Hillingdon could continue	ip	Quality
	International airports with			failure to submit a	pursuit of this objective by joining		Working
	regard to the minimisation			successful bid.	the ARC organisation.		Group
	of air quality impacts and			BA has achieved success	Projects such as the BA APU study		
	assess feasibility of			in a project to reduce	should be highlighted as best		
	application at Heathrow.			APU usage across the BA	practice and rolled out across other		
				network. The project has	airlines at Heathrow.		
				saved 1000 tonnes in fuel	Heathrow Air Quality Strategy		
				burn to date and are	2011-2010 Actions 2.1 to 2.7		
				projecting savings of	present a series of measures for		
				40,000 tonnes of CO ₂ are	reducing emissions on the ground,		
				possible annually over the	including tighter running time		
				BA network, with	allowances for APUs and targets		
				corresponding reductions	for provision of fixed electrical		
				in other ground emissions	ground power and pre-conditioned		
				and ground noise.	air at fixed stands.		
				Heathrow Air Quality	There is no commitment given in		
				Strategy 2011-2010	the Heathrow Air Quality Strategy		
				Action 3.8 comments to	2011-2010 under Action 3.8 to		
				making a benchmark	make the benchmarking survey		
				survey of air quality	public.		
				management regimes			
				and airside operations at			

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				other comparable airports			
				in 2011, 2015 and 2020.			
				There is, however, no			
				commitment given to			
				make this survey public.			
4. 07.	Work with National	2010	In	Publication of Civil	Adding Capacity consultation	Partnersh	Local
	Government to ensure the		progress	Aviation Sustainable	shows clear non-compliance with	ip	Authorities
	use of all relevant fiscal			Strategy.	EU 2010 limit at relevant locations.		
	measures to reduce			Progress Report on Air	Hillingdon will pursue via 2M group		
	emissions from Heathrow			Transport White Paper	to approach EU on the issue of a		
	in order to achieve the			published in December	derogation.		
	2010 EU limit.			2006. Heathrow	Delegation to Strasbourg to raise		
				expansion via mixed	concerns over air quality levels		
				mode and/or 3rd runway	around Heathrow and lack of		
				still supported by Govt but	measures to secure compliance;		
				only if strict environmental	Officer visit to Brussels to raise air		
				criteria such as AQ	quality modelling issues around		
				objectives can be met.	Heathrow;		
				Full PSDH consultation	Consultation response sent to		
				due in summer 2007.	Defra re Plans and Programmes to		
				OMEGA set up by Govt, a	Meet EU Limit Values – no		
				multi-disciplinary	incorporation of Heathrow or		
				partnership to study	aviation as a source of emissions		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	У
		le	Measure			Role	
				environmental, business	Awaiting the publication of the draft		
				and operational impacts	Time Extension Application with		
				of aviation.	regards to its treatment of the		
				Hillingdon and Hounslow	Heathrow area as a source of non-		
				to attend meeting in April	compliance and the action		
				2007 for update on	suggested for mitigation		
				OMEGA workstreams.	BAA Air Quality Strategy Review -		
				Consultation response on	waiting for 2011-2020 release.		
				aviation into EU ETS	Draft to date suggested a focus on		
				Meeting with Defra re	four objectives:		
				potential options for	Limit and where possible reduce		
				reducing emissions	airport related emissions to local air		
				around Heathrow.	quality concentrations at all		
				Aviation Scoping Report –	relevant local receptors to help		
				will form the framework	ensure EU LV met in Heathrow		
				for aviation, Hillingdon will	area;		
				be working with others to	Accurately quantify contribution		
				form robust response to	from airport-related sources to local		
				protect the interests of	air quality concentrations to focus		
				local residents.	management activities;		
				Heathrow Area identified	Continually improve approach to		
				as exceedence area	managing AQ impacts, supporting		
				within the Defra Air	technology etc;		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				Quality Plan for meeting	Actively engage with internal and		
				the EU limit value	external stakeholders to develop		
					shared objectives.		
					BAA Surface Access Strategy		
					Review		
					No draft to comment, HEATHROW		
					AIRPORT has withdrawn Transport		
					and Works Act application for		
					Airtrack, which would have given		
					rail link to the west.		
4. 08.	Assess the potential to set	2008	Complete,	There is potential to set	Not an option reviewed as part of	Partnersh	Heathrow Air
	an emissions cap for		in terms of	an emissions cap for the	Adding Capacity documentation	ip	Quality
	Heathrow.		assessing	airport, perhaps	This aspect may need to be		Working
			potential	differentiated in terms of	addressed in the Time Extension		Group
				the different activities	application to help ensure		
				undertaken there (local	compliance with EU air quality		
				area traffic, stationary	limits		
				sources, airport service			
				vehicles and aircraft).			
				However, it is concluded			
				that there is currently no			
				willingness to pursue this			
				as an option by either the			

Re	f.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
					airport operator or central			
					government.			
4.	09.1.	Assess the potential to	2008	Not	CAA/EA given roles as	Not an option reviewed as part of	Partnersh	Heathrow Air
		use landing emissions		started,	independent assessors	Adding Capacity. Heathrow already	ip	Quality
		charges scheme to create		Council	for noise and air quality	has emissions charges in place		Working
		revenue stream for public		will	as part of the Decision on	although the Heathrow AQ Action		Group
		transport improvements.		continue	Heathrow Expansion. Any	plan 2007-2011 notes this has low		
				to lobby	landing charge will need	emissions benefit for NOx		
					to be sufficiently high to	reduction		
					enforce change with	Hillingdon will seek to pursue this		
					regard to fleet turnover,	option to deal with the current air		
					Hillingdon will work with	quality exceedences experienced		
					both the CAA and EA to	around the Heathrow area		
					ensure these concerns	This aspect may need to be		
					are raised.	addressed in the Time Extension		
					Role of CAA and EA with	application to help ensure		
					regard to environmental	compliance with EU air quality		
					conditions around	limits		
					Heathrow still not yet	Needs to be reviewed from a legal		
					published - this role has	perspective, in relation to revenue-		
					not been pursued by Govt	neutrality.		
					following the cancellation			
					of expansion plans at			

Re	ef.	Action Plan Measure	Original Timesca	Progress with	Outcome to date	Comments	Local Authority	Responsibilit y
			le	Measure			Role	
					Heathrow.			
4.	09.2.	Introduce differentiated	2010	Ongoing	Differentiated landing	Not an option reviewed as part of	Partnersh	HEATHROW
		landing charges at a level			charge in place but effect	Adding Capacity – no	ip	AIRPORT
		that would force cleaner			unknown as to whether it	recommendations on control of this		
		engine technology.			has been set at a level	source was made in the		
					that will force change.	consultation material		
					Heathrow Air Quality	It is unclear the extent to which the		
					Strategy 2011-2020	targets under Action 2 of the 2011-		
					Action 2 commits to	2020 Heathrow AQ Strategy reflect		
					review landing charges	business as usual. HEATHROW		
					annually to incentivise the	AIRPORT will therefore need to		
					use of cleaner aircraft,	work with Hillingdon to provide		
					with a target of 95% of	clarity on the resulting benefits.		
					ATMs at CAEP4 and			
					above by 2015 and 100%			
					by 2020.			
					Heathrow Air Quality			
					Strategy 2011-2010			
					Action 3.2 commits to			
					develop a matrix of			
					aircraft types and engine			
					fits based on noise and			
					NOx emissions to help			

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				develop their landing			
				charges fee structure.			
4. 10.	Audit progress on the	2005	Ongoing	Progress on Heathrow	Now replaced by AQ Action Plan	Partnersh	Heathrow Air
	BAA Heathrow Air Quality			AQ Action Plan during	for 2007-2011	ip	Quality
	Action Plan (2001-2006).			2006:	EA invited to be a part of the		Working
				Aircraft towing trial with	Heathrow Air Quality Working		Group
				Virgin to assess its	Group		
				effectiveness in reducing	Current plan under review.		
				taxiing emissions and	Hillingdon will be a consultee of the		
				operational feasibility for	draft new Action Plan		
				Heathrow;	New air quality action plan for		
				Concluded the first year	Heathrow for 2011 to 2020 has		
				of Clean Vehicles	now been issued. Objective 3		
				Incentive Fund, awarding	contains a series of actions for		
				£100k to CVP members	dissemination of information, with		
				to adopt low emission	Action 3.18 committing to		
				technologies;	engagement with Local Authorities.		
				Completed a feasibility	Hillingdon will need to ensure that		
				study for the Clean	the level of engagement is		
				Vehicles Programme to	sufficient for monitoring progress		
				become compulsory for	with the Action Plan.		
				all airside vehicles and to	After an external tendering		
				be extended to address	process, consultants have been		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				CO2 emissions as well as	appointed to undertake an audit of		
				NOx;	specified actions for the 2011-2020		
				Committed to BAA roads	Plan. The working group is		
				being part of the London	currently formalising which actions		
				LEZ should it proceed.	will be audited.		
				BAA Action Plan to be			
				reviewed, current work			
				includes collation of an			
				updated Emissions			
				Inventory and the revision			
				of Airside Vehicles			
				Strategy			
4. 11.	Review air quality	2005	Completed	Monitors now in place at	Air quality monitoring network	Partnersh	Heathrow Air
	monitoring regime at			Sipson and	reviewed as part of the West	ip	Quality
	Heathrow and identify			Harmondsworth, monitors	London Network Audit.		Working
	potential gaps.			in Harlington, Longford	See 4.04 for relevant details from		Group
				and Oaks Road retained.	2011-2020 Heathrow Air Quality		
				Heathrow Airport is	Strategy.		
				working with University of	The Airwatch site is currently being		
				Cambridge on the	refreshed. It is anticipated that the		
				development and	new site will be up and running by		
				deployment of, a network	the end of June 2013.		
			_	of electrochemical			

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				sensors across the			
				Airport. If proved			
				accurate, the sensors will			
				help provide a more			
				informed spatial analysis			
				of emissions across the			
				airport. The local			
				authorities are currently			
				working with the Airport to			
				co-locate the new			
				sensors with existing air			
				quality monitoring stations			
				as a part of the project			
				development process.			
4. 12.	Maintain production of	2010	Ongoing	Emission Inventories	Heathrow AQ strategy 2011-2020	Partnersh	BAA
	externally audited			produced as part of the	(Action 1.4) commits to production	ip	Heathrow
	Emissions Inventory on			Adding Capacity	of an annual NOx emissions		
	bi-annual basis.			consultation	inventory to review the efficacy of		
					the airport operator's action plan.		
					There is, however, no commitment		
					that this will be externally audited.		
					Action 1.5 commits to make this		
					information available to the		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
					Boroughs. Actions 1.11 to 1.18		
					commits to various actions for		
					improved automatic data collection		
					for inventory improvement for		
					mobile sources. Under Action 3.1		
					a commitment is given to publish		
					the aircraft fleet profile against		
					CAEP standards on an annual		
					basis.		
4. 13.	Identify the areas where	2006	Ongoing	Draft new Action Plan	Heathrow Air Quality Action plan	Partnersh	Heathrow Air
	the existing BAA 5 year			sent out for consultation	2007-2011 published. Examples	ip	Quality
	Action plan can be			March/April 2006.	below:		Working
	strengthened.			Comments sent from	Managing emissions from		Group
				Heathrow local authorities	aircraft operations - of the 6		
				requesting inclusion of	actions put forward 4 have		
				quantification of emission	high emission reductions		
				reductions on measures,	benefits but all 4 have		
				cost-effectiveness and	tradeoffs with other pollutants;		
				annual progress reports	Managing emissions from		
				in line with Defra	airside vehicles – 7 actions, 3		
				guidance.	medium emission benefits;		
				March 2007 - new Action	Managing emissions from		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				Plan still not published,	landside vehicles - 5 actions,		
				letter sent from Heathrow	2 of medium benefit;		
				local authorities	• Fixed sources – 1 action,		
				requesting update on the	low emission benefit.		
				issue.	Hillingdon provided comments to		
				New air quality action	the draft of the 2011-2020		
				plan for 2011 to 2020	Heathrow AQ Strategy.		
				about to be released			
				(autumn 2011).			
				Hillingdon has			
				commented on a draft.			
4. 14.	Pursue quantification of	2006	Ongoing	March 2007 - neither the	2007-2011 Heathrow AQ Action	Partnersh	Heathrow Air
	measures in the BAA Air			Action Plan nor the	Plan published;	ip	Quality
	Quality Action Plan and			Surface Access Strategy	Heathrow Surface Access Strategy		Working
	Surface Access Strategy			have been published,	not yet finalised		Group
	in terms of air quality			letter sent from local	Heathrow Surface access Strategy		
	impacts.			authorities surrounding	finalised. Links made with		
				Heathrow requesting	improving local air quality and		
				update on the issue.	gaining reductions in climate		
				Quantification of the new	change emissions. No increase in		
				plan expected in 2012.	modal transport shift to public		
				2011-2020 Heathrow AQ	transport target - this has been		
				strategy Action 1.6, 1.7,	retained at 40%		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				1.8 commit to provide	In its role as consultee Hillingdon		
				dispersion model	will pursue this issue in regard to		
				forecasts for 2015, 2020	the new BAA Action Plan		
				and 2025, including	See 7.07 regarding Mayor's Air		
				source apportionment.	Quality Fund application.		
				Action 1.9 commits to	See 4.11 regarding Airwatch		
				analysing monitoring data			
				to better understand the			
				relationship between			
				airport activity and local			
				air quality.			
4. 15.	Assess feasibility of	2006	Not	An important part of the	Not reviewed in depth as part of	Partnersh	DfT
	Congestion/Access		started	legal challenge was the	Adding Capacity consultation.	ip	
	Charging at Heathrow to			inadequacy of the	Heathrow Decision – this aspect to		
	reduce overall travel			approach taken by DfT	be left to planning application stage		
	movements to the airport.			with regard to improving	if Govt approve capacity increases.		
				surface access to	Hillingdon believe this is a flaw of		
				Heathrow. The claimants	the Government decision not to		
				won the point regarding	have properly addressed surface		
				surface access and the	access issues as part of the		
				fact that even without any	decision to expand		
				further expansion taking	This aspect may need to be		
				place, the current surface	addressed in the Time Extension		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				access network is	application to help ensure		
				inadequate even to	compliance with EU air quality		
				support forecast growth	limits.		
				under existing limits			
4. 16.	Assess feasibility of a	2006	Completed	Commitment from BAA to	If the London LEZ does not go	Partnersh	DfT
	Heathrow specific LEZ to			include BAA roads and	ahead Hillingdon will still push for a	ip	
	reduce emissions and			motorways should LEZ	Heathrow specific LEZ.		
	accelerate take up of			proceed.	BAA roads included		
	cleaner vehicle				Heathrow Roads included		
	technology.				Heathrow Decision for expansion		
					has not incorporated this option		
					Given continuing exceedences		
					around Heathrow Hillingdon will		
					work with partners to assess		
					feasibility of more stringent LEZ		
					around the Heathrow area		
					This aspect may need to be		
					addressed in the Time Extension		
					application to help ensure		
					compliance with EU air quality		
					limits.		
					See 7.07 regarding Mayor's Air		
					Quality Fund application.		

Ref.	Action Plan Measure	Original Timesca	Progress with	Outcome to date	Comments	Local Authority	Responsibilit y
		le	Measure			Role	
4. 17	Assess appropriate target	2006	Planning	40% modal shift to public	Adding Capacity documentation	Partnersh	DfT
	for modal shift to		phase	transport achieved in	suggests high increases in surface	ip	Heathrow
	maximise air quality			2008, on track to be	access to Heathrow e.g. 27%		Airport
	improvements.			sustained in 2009,	increases in traffic volumes during	Lobbying	Transport
				currently awaiting	the inter-peak.		Forum
				validation of figures.	Severe increases in capacity of the		
				The current Heathrow	Piccadilly line and other modal		
				Surface Access Strategy	transport alternatives will be		
				(2008-2012) also has an	required if the Govt give approval		
				aspirational target of 45%	for expansion.		
				for public transport mode	Heathrow Decision for expansion		
				share. The Airtrack	has not incorporated this option;		
				scheme may help move	Heathrow Surface access Strategy		
				towards this target	2008 has not looked to increase		
				however the BAA	the public transport modal shift		
				masterplan forecast	target from 40%;		
				growth, within existing	Heathrow Decision for expansion		
				limits, is 90-95mppa. This	has not incorporated this option		
				implies a further	Given the projected growth in		
				9.74mppa to arrive by	passenger numbers, Hillingdon will		
				private transport and an	continue to pursue the setting of		
					higher targets for public transport		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				accommodated on public	modal shift given the projected		
				transport.	extra volumes in passengers		
				The HS2 company has	This aspect may need to be		
				now published its	addressed in the Time Extension		
				preferred route option and	application to help ensure		
				concluded that a link to	compliance with EU air quality		
				Heathrow may not have a	limits		
				strong business case.			
				The Heathrow link is now			
				subject to a separate			
				review. Hillingdon are			
				supportive of the principle			
				of high speed rail but only			
				with the objective of			
				improving modal shift			
				from road and short haul			
				air to rail. Hillingdon will			
				not support a high speed			
				rail link which simply fuels			
				the call for increased			
				capacity at Heathrow			
4. 18.	Define programme for the	2006	Complete	Link to 4.06	Via ICAO?	Partnersh	Heathrow Air
	establishment of code of			Programme is defined	There is a programme via ICAO	ip	Quality

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
	practice for airlines best			under Actions 2.1 to 2.7	looking at this option, progress to		Working
	operating practice to			of the Heathrow Air	date is slow.		Group
	maximise reduction of			Quality Strategy 2011-	Heathrow Decision for expansion		
	emissions.			2010	has not incorporated this option		
					This aspect may need to be		
					addressed in the Time Extension		
					application to help ensure		
					compliance with EU air quality		
					limits		
4. 19.	Develop best practice	2006	In	Consultation meeting with	No obvious links have been made	Partnersh	Heathrow Air
	guidelines to ensure air		progress	BAA Heathrow on	in the Heathrow AQAP 2007-2011	ip	Quality
	quality impact			Heathrow Surface Access	to any targets/objectives in the		Working
	assessments are integral			Strategy (HSAS),	forthcoming Heathrow Surface		Group
	part of relevant transport			consultation comments	Access Strategy		
	and transport			returned to BAA.	Heathrow Decision for expansion		
	infrastructure proposals,			Comments included the	has not incorporated this option		
	and that appropriate			need to make strong links	This aspect may need to be		
	mitigation measures are			with the air quality levels	addressed in the Time Extension		
	inclusive part of any			in the region and indicate	application to help ensure		
	scheme.			how the HSAS measures	compliance with EU air quality		
				will contribute to	limits		
				addressing this.	See 4.01 regarding the Aviation		
				March 2007 - HSAS still	Policy Framework		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				not published.			
				Heathrow Air Quality			
				Strategy 2011-2010			
				Action 2.2 commits to			
				development of a best			
				practice programme with			
				partners in Sustainable			
				Aviation and the CAA			
4. 20.	Assess feasibility of	2006	Completed	Heathrow Bus and Coach	Incorporated into the LEZ	Partnersh	Heathrow Air
	specifying emissions			Strategy has committed	Heathrow Air Quality Strategy	ip	Quality
	criteria for Heathrow taxis,			to ensuring that only LEZ	2011-2010 Actions 2.13 to 2.18		Working
	buses and coaches using			compliant vehicles are	specify a number of measures for		Group
	the Central Bus Terminal,			stipulated in future BAA	reducing emissions from landside		
	and car hire shuttles,			supported contracts.	vehicles using the airport.		
	hopper buses etc.						
4. 21.	Ensure the minimisation	2006	Planning	New air quality action	Freight addressed via the BAA	Partnersh	Heathrow Air
	of the air quality impact of		phase	plan for 2011 to 2020	Clean Vehicle Programme	ip	Quality
	freight deliveries to and			about to be released.			Working
	from Heathrow is a key			Hillingdon has			Group
	objective of the West			commented on a draft.			
	London Freight Quality			Surface access strategy			
	Partnership (WLFQP).			to follow 2012/2013.			
4. 22.	Assess the use of bus	2010	Not		Adding Capacity documentation did	Partnersh	Heathrow Air

Re	f.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
		priority, guided buses and		started		not review this option	ip	Quality
		high occupancy vehicle				Heathrow Decision for expansion ha		Working
		lanes in the Heathrow				incorporated this option		Group
		area.				This aspect may need to be		
						addressed in the Time Extension		
						application to help ensure		
						compliance with EU air quality		
						limits		
4.	23.	Assess the feasibility of a	2006	Not		Adding Capacity documentation did	Partnersh	Heathrow Air
		Park and Ride scheme		started		not review this option	ip	Quality
		specifically for Heathrow.				Heathrow Decision for expansion		Working
						has not incorporated this option		Group
						This aspect may need to be		
						addressed in the Time Extension		
						application to help ensure		
						compliance with EU air quality		
						limits		
4.	24.	Assess the health impact	2007	Planning	Launched in June 2009,	Adding Capacity documentation did	Partnersh	Heathrow Air
		of Heathrow Airport and		phase	the new £5 million MRC-	not review this option	ip	Quality
		associated activities.			HPA Centre for	Heathrow Decision for expansion		Working
					Environment and Health	has not incorporated this option		Group
					has as one of its first	Joint meeting with Hounslow to the		
					projects - A study of	research team, currently awaiting		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				people living near	completion, peer review and		
				London's Heathrow	publication of the study		
				airport, exploring how air	July 2012 – queried with MRC-HPA		
				and noise pollution can	centre whether report is yet		
				affect people's health.	available. Response awaited.		
				The research will analyse	COMEAP, for the Department of		
				the effects of living near	Health, published guidance on		
				road traffic from airport	quantification of health impacts of		
				uses as well as	air pollutants at a local level in		
				aeroplanes. Current	2012.		
				evidence suggests that			
				air pollution and noise			
				affect the cardiovascular			
				system in different ways.			
				Building on existing work,			
				the new study will look at			
				the effects of exposure to			
				both forms of pollution			
				together			
4. 25.	Lobby Central	2007	Ongoing	Council has lobbied	Government decision on expansion	Lobbying	Local
	Government to pursue			government, but no	has introduced concept of green		Authorities
	more stringent emission			response on this issue to	slots – no further details available		
	standards for plant,			date.	to date as to what this actually		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
	aircraft and airside			The Heathrow Expansion	entails or what impact it will have		
	vehicles.			Decision referred to	on aircraft fleet turnover		
				consultation on a green	Hillingdon will lobby for the		
				slot mechanism to	continuance in exploring this		
				incentivise the use of	mechanism.		
				cleaner planes. There has	This aspect may need to be		
				been no consultation to	addressed in the Time Extension		
				date.	application to help ensure		
				Heathrow Air Quality	compliance with EU air quality		
				Strategy 2011-2010	limits		
				Actions 2.8 to 2.12	See 4.01 regarding the Aviation		
				introduce various	Policy Framework		
				measures to reduce			
				emissions from airside			
				vehicles.			
4. 26.	Explore feasibility of	2010	Complete	January 2007 - Fares on	As above	Lobbying	Local
	reducing fares on the			HEX increased by 7%.	Heathrow Decision for expansion		Authorities
	Heathrow Express.			May be addressed by	has not incorporated this option		
				PSDH to promote modal			
				shift.			
				Heathrow Connect			
				stopping service			
				introduced as cheaper			

Re	f.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
					option to HEX			
					Concluded that this is not			
					a possibility under the			
					current economic climate.			
4.	27.	Pursue relevant	2008	Ongoing	Responding to TfL	TfL have increased bus	Lobbying	Local
		organisations to prioritise			consultation on public	connectivity to Heathrow		Authorities
		public transport provision			transport links to T5.	2m High Speed North proposal;		
		to Heathrow, particularly			BAA has withdrawn the	Government High Speed Two		
		rail links to the west, east			funding that would have	The recent HS2 report has		
		and south.			progressed AirTrack.	indicated a weak business case for		
						prioritising a direct link to Heathrow		
						from the new proposed high speed		
						line		
4.	28.	Explore feasibility of an	2010	Complete	Heathrow Area Transport	Adding Capacity documentation did	Lobbying	Local
		airport passenger tax,			Forum projects funded	not review this option		Authorities
		ring-fenced for increased			using money from	Heathrow Decision for expansion		
		public transport.			Heathrow car parking	has not incorporated this option		
					charges.	This aspect may need to be		
						addressed in the Time Extension		
						application to help ensure		
						compliance with EU air quality		
						limits		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
Package							
5.	Measures Concerning Loca	l Industries	and Other Bu	usinesses			
5. 01.	Support opportunities for	2010	Ongoing	Part of the Hillingdon pre-	Caution advised with	Local	Planning
	Combined Heat and			application advice that although	regards to biomass	Authority	
	Power where appropriate			such schemes may be considered	installations in new	Led	
	within the Borough.			they must be accompanied by	developments. AQ		
				appropriate air quality	assessments on biomass		
				assessments.	requested as part of		
				Links also to MAQS	planning submission		
				Hillingdon now has a framework in	Hillingdon using EPUK		
				place whereby schemes can be	guidance with regard to		
				assessed for air quality impact,	biomass. Biomass is		
				providing developers with the	discouraged. Where it is		
				certainty that they need with	suggested as part of a		
				respect to planning requirements	development Hillingdon		
				when making applications.	require full air quality		
					assessment including		
					details on the		
					sustainability of the fuel		
					plus full details of		
					abatement technology		

Re	f.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
5.	02.	Introduce (within reason)	2007	Ongoing	New monitoring station location	BAM chosen for PM	Local	Environment
		progressively stricter			finalised, due in place by April 07,	monitoring due to non-	Authority	al Protection
		conditions on Part A			Grundons supporting purchase of,	compliance issues with	Led	Unit (EPU)
		processes, including			and running costs of the station for	TEOMs, as advised by		
		incineration processes,			5 years.	Defra.		
		especially when located			Harmondsworth monitor now in			
		within high exceedence			place, new monitor located in			
		areas or where the impact			Hayes.			
		is predicted to be within			Heathrow Air Quality Strategy			
		high exceedence areas.			2011-2010 Action 2.20 commits to			
					conducting a best available			
					techniques analysis for all major			
					boiler plant, and then to seek			
					funding for application, as			
					appropriate, on a 'suitable			
					timescale'.			

Ref.		Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
5.	03.	Work with the	2005	Completed	Press release passed to AQ group	Hillingdon working with	Local	Environment
		Environment Agency to			on prosecution by EA of Clinical	EA, Slough, health	Authority	al Protection
		improve public			Energy in Hillingdon.	agencies and Grundons	Led	Unit (EPU)
		dissemination of industrial			Emission data available at	to set up a website with		
		pollutant emissions data			http://www.emissions.hillingdon.go	on-line monitoring data		
		and other relevant			v.uk.	available when Slough		
		information, for example			Communication lines in place with	Incinerator is in full		
		on performance against			EA via the Heathrow AQ Working	operation.		
		permit conditions.			group and for specific installations	Working in partnership		
					as and when appropriate	with the EA is an integral		
						part of the action plan		
						process, opportunities for		
						dlalogue exist via several		
						working groups and on an		
						individual installation-		
						specific basis		
5.	04.	Discourage the use of	2005	Completed	Launched at GLA November 2006,	Use of Best Practice	Local	Environment
		bonfires on all industrial			used in Hillingdon as planning	Guidance advised on all	Authority	al Protection
		sites.			condition.	relevant planning	Led	Unit (EPU)
					Measure complete via use of Best	applications		
					Practice Guide.			

F	lef.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
5.	05.	Adopt best practice	2005	Completed	Covered by Best Practice Guide:	See above (5.04)	Local	Environment
		strategy for all proposed			Control of Emissions from		Authority	al Protection
		demolition and			Construction and Demolition from		Led	Unit (EPU)
		development projects.			GLA/APPLE.			
		This will include the use of						
		low emission vehicles and						
		equipment and the use of						
		dust minimisation						
		techniques.						
5.	06.	Ensure continued	2006	Ongoing	New Part B website launched	100% of inspections	Local	Environment
		regulation of part B			January 2007, link on Council's	carried out in 2008	Authority	al Protection
		processes and			website, gives details of processes	All inspections carried out	Led	Unit (EPU)
		maintenance of part B			and permits within Hillingdon.	by external contractors,		
		register. Ensure register is			100% of inspections carried out on	reports given to LA and all		
		available on-line.			industrial processes in 2007, all	information available via		
					information relating to inspections	specialised website		
					available via specialised website	including online		
						application		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
5. 07.	Investigate introduction of	2008	Completed	Conclusions reached in the audit of	Current resources do not	Local	Environment
	Air Quality Action Plans			the AQAP on this measure. Need	permit this to extend	Authority	al Protection
	for local industries,			to prioritise sources and provide	beyond statutory actions.	Led	Unit (EPU)
	including those currently			guidance on emission reductions			
	un-regulated under EA.			and cost-saving actions that may			
				be possible (e.g. through improved			
				efficiency of resource use),			
5. 08.	Consider introduction of	2008	Not	No progress to date.	This measure has been	Local	Sustainability
	Environmental Award		started		brought to attention of	Authority	Steering
	system for local industries				LSP as one they may	Led	Group
	and businesses.				wish to pursue, also to be		
					put forward as measure		
					for revision of MAQS		
5. 09.	Encourage businesses to	2008	In	Freight forum and Green Business	No progress on this issue	Local	Sustainability
	participate in		progress	Forum will act as vehicles to	in 2007 – see above	Authority	Steering
	environmental			provide information and encourage	Air quality rep now on the	Led	Group
	management schemes			environmental awareness.	Local Strategic		
	and to continue to				Partnership, Cleaner		
	improve environmental				Greener group - this may		
	performance.				prove a mechanism for		
					taking this forward in the		
					future		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	У
		le	Measure			Role	
Package							
6.	Improving Eco-efficiency of	current and	d future devel	opments, inc. Council properties			
6. 01.	Provide a consolidated	2007	Ongoing	Presentation on air quality to	Green Roadshow held in	Local	Sustainability
	platform for advising			Ickenham Residents Group,	May 2007, raising	Authority	Steering
	businesses and the public			Business Forum, Residents group	awareness of recycling,	Led	Group
	of the risks of air pollution,			around Heathrow.	low carbon life-styles,		
	ways of reducing			Participation in Streets Ahead Day,	energy saving, use of		
	pollution, and campaigns			and World Environment Day	alternative technologies;		
	such as Bike to Work			promoting local and global air	Streets Ahead scheme		
	Week, combining			quality issues.	set up in Hillingdon -		
	information from various			AirText launched March 2007,	representatives from		
	Council departments and			article in Hillingdon People and	Environmental services		
	other bodies.			local press, target to get 300 sign	visit a different ward each		
				ups.	month, ensuring that		
				Inconvenient Truth DVD showing	initiatives like AirText are		
				to Labour Group.	promoted monthly		
				Continued participation in AirText,	throughout the Borough;		
				attendance at monthly Streets	World Environment Day		
				Ahead events throughout the	event held - Nottingham		
				Borough	Declaration on Climate		
				The Airtext scheme has a total of	Change signed		
				5,947 subscribers with Hillingdon	Local air quality theme at		
				have a total of 94. In the period	3 Streets Ahead events in		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	У
		le	Measure			Role	
				July 09-Jan 2010 Hillingdo	n the year;		
				subscribers were sent message	s Air quality presentation		
				over a total of 21 alert days.	given to Street		
					Champions in Hayes;		
					Go Green event in local		
					park concentrated an		
					local air quality and		
					climate change;		
					Enviromall - event in local		
					shopping centre		
					concentrated an local air		
					quality and climate		
					change		
					Airtext has proved a		
					successful tool for		
					sensitive receptors in		
					Hillingdon. Continued		
					support will be given		
					where resources are		
					available to ensure the		
					service is continued		
6. 02	. Work with existing	2007	Ongoing	Energy efficiency awarenes	s Ongoing campaign to	Local	Energy
	buildings and housing			campaigns are underway for loc	al promote energy efficiency	Authority	Efficiency

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
	stock to secure			residents.	via several events	Led	Programme
	improvements in			Establishment of the Green doctor	throughout the year		
	emissions.			scheme in Hillingdon -see			
				highlights			
				Schools Cleaner Air Zone Project			
				(links to action 1.06). The project			
				will (amongst other activities) aim			
				to use a range of measures aimed			
				at reducing emissions from the			
				selected schools.			
6. 03.	Ensure continued use of	2008	Ongoing	S106 SPD being re-drafted, air	S106 SPD out to	Local	Planning
	existing mechanisms such			quality integrated into transport	consultation March 2008	Authority	Department
	as Section 106			section as well as stand alone	Planning Obligation SPD	Led	
	agreements for			section.	finalised July 2008,		
	improvements in air			The emerging draft LDF refers to	transport and air quality		
	quality.			the use of mechanisms such as	key themes that		
				s106 to address air quality issues	Hillingdon will look to		
					address		
					The draft MAQS refers to		
					the continued use of s106		
					and the development of		
					an SPD template for air		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
					quality to be used		
					throughout London		
6. 04.	Review and update Air	2006	In	Hillingdon LDF re-drafted,	AQ SPD to be reviewed	Local	Planning
	Quality Supplementary		progress	timetable for review of AQ SPD put	Sept 2008, consideration	Authority	Department
	Guidance when			back.	to be given to links to	Led	
	appropriate (see planning			See comment in 6.03	climate change		
	application form at				Timetable put back due to		
	Section 7).				slippage of LDF		
					timescale, Hillingdon will		
					look to widen this to Local		
					Air Quality and Climate		
					Change		
					LDF due for consultation		
					in summer 2010, SPD will		
					follow		
6. 05.	Quantify cumulative	2007	Ongoing	Awaiting finalisation of LDF.	LDF still not finalised -	Local	Environment
	effects of new			Pushing for consideration of	Hillingdon asked to re-visit	Authority	al Protection
	developments within			cumulative impacts of development	LDF due to Adding	Led	Unit (EPU)
	AQMA.			to be considered where	Capacity consultation,		
				appropriate.	unlikely to be finalised		
					before summer 2008		
					LDF now due for		
					consultation in summer		

Ref.		Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
						2010		
6. 0	06.	Develop supplementary	2006	Completed			Local	Planning
		planning guidance for					Authority	
		sustainable design and					Led	
		construction.						
6. 0	07.	Raise awareness of	2006	Completed	Home composting being promoted	Green kerbside recycling	Local	Sustainability
		sustainable waste			in addition to actions undertaken in	in place at all homes	Authority	Steering
		management practices.			previous years.		Led	Group
6. 0	08.	Development of West	2005	Planning	Air quality and climate change	London Plan re-visited in	Partnersh	West London
		London Air Quality SPD to		phase	linked in new draft of the Hillingdon	2008, Heathrow	ip	Air Quality
		ensure consistency			LDF as key spatial objectives.	Opportunity Area		Group
		across Borough			West London Air Quality Strategy	identified with a		
		boundaries, explore			due for review to cover 2010-2015	requirement for a		
		opportunities for joint			which present an opportunity to	minimum of 10,750		
		Section 106 agreements.			address this issue	homes.		
						Waiting for finalisation of		
						west London Borough		
						LDFs		

Ref	-	Action Plan Measure	Original Timesca	Progress with	Outcome to date	Comments	Local Authority	Responsibilit y
			le	Measure			Role	
Pacl	kage							
7.		Actions to be Taken Corpor	ately, Regio	onally and in I	Liaison with the Mayor			
7.	01.	Ensure that the London	2006	Ongoing	New emerging LDF includes	See 6.05 for progress on	Local	Planning
		Development Framework,			objectives to improve air quality;	LDF;	Authority	Policy Unit
		Borough Transport			The emerging Borough Transport	Planning Obligations SPD	Led	
		Strategy the Community			Strategy due to be published for	published July 2008, local		
		Plan and future corporate			consultation in Dec 2010 has	air quality issues		
		strategies incorporate the			improving quality of life and	incorporated;		
		Borough air quality action			reducing the carbon footprint as	Climate Change Strategy		
		plan and local air quality			key objectives	published April 2009, local		
		strategy measures where				air quality issues		
		appropriate.				incorporated		
7.	02.	Develop an environmental	2008	Not	No progress.		Local	LSP
		management system for		started			Authority	
		Hillingdon Borough					Led	
		Council.						
7.	03.	Establish an Environment	2008	In	No progress in terms of the	Alternative approach	Local	LSP
		Coordination Office for		progress	measure as defined, but progress	being followed for this	Authority	
		more effective integration			has been made less formally on	measure, with good	Led	
		of actions to improve			this measure (see right).	coordination between		
		environmental				(e.g.) air quality, climate		
		performance within and				and transport, planning		
		outside the Council.				officers.		

Re	f.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	У
			le	Measure			Role	
7.	04.	Implement an integrated	2006	Ongoing	The Low Emission Strategies	Procurement policy for	Local	Sustainability
		procurement strategy so			Partnership Board has the	fleet vehicles in place.	Authority	Steering
		that purchase of goods			development of a Procurement	Requirement for relevant	Led	Group
		and services is evaluated			Strategy as a key project for	Green Spaces contractors		
		against London			2010/2011.	to use electric vehicles.		
		sustainability targets.						
		This to include support to						
		environmental industries						
		in London, where						
		appropriate.						
7.	05.	Provide air quality	2006	Ongoing	Articles in Hillingdon People for car	Public meetings held and	Local	Environment
		information to interested			share, update on new air quality	regular press releases	Authority	al Protection
		parties and link with other			monitoring within the Borough,	given with regard to	Led	Unit (EPU)
		health initiatives.			AirText sign up.	Adding Capacity at		
					Reports and presentations given to	Heathrow consultation;		
					local residents groups with regard	AirText regularly		
					to air quality, progress on PSDH.	promoted at Streets		
					Industrial emissions website	Ahead events throughout		
					established. (see 5.03)	the Borough		
						See 6.01		
7.	06.	Work with the London	2008	Not	No progress.	Action likely to be led by	Partnersh	LSP
		Sustainable Distribution		started		TfL	ip	
		Partnership to implement						

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
	infrastructure for effective						
	and integrated distribution						
	of goods in London.						
7. 07.	Work in partnership to	2007	Ongoing	Joint projects identified with WL	Continued regional	Partnersh	West London
	ensure consistency of			Freight Quality partnership.	working with West London	ip	Alliance
	Action Plan measures and			Highways Agency meetings	Air Quality group,		
	explore all opportunities			identified as annual event for	successful bids via West		
	for regional measures for			Heathrow area.	Trans BSP and Defra		
	reducing emissions.			Environment Agency meetings	grants for joint actions		
				identified as 6-monthly event for	As above		
				Heathrow specific issues,	Hillingdon also now		
				attendance also at WL AQ Cluster	represented on Low		
				Group.	Emission Strategies		
				Review of WL Air Quality Strategy	Partnership Board –		
				complete, includes links with	taking forward production		
				Climate Change and a	of Low Emission Toolkit		
				Communication Strategy.	and Procurement		
				The West London Air Quality	Guidance		
				Strategy will be reviewed to cover	Hillingdon, in a joint		
				2010-2015, this will incorporate	approach with Hounslow,		
				relevant measures from the West	have submitted a		
				London Transport Strategy.	partnership bid to the		
				Good consistency of measures	Mayor's Air Quality Fund		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				with Mayor's Action Plan	along with Heathrow		
				This new fund, supported by TfL	Airport and		
				and the GLA, has been launched	GlaxoSmithKline (GSK). If		
				to provide match-funding for	successful, the funding		
				boroughs that produce innovative	will enhance the partners'		
				new schemes and projects	current work on the		
				designed to tackle air pollution. To	promotion of alternative		
				gain access to the funding	fuels especially in regard		
				boroughs must sign up to specific	to electric vehicles. The		
				criteria to confirm ongoing support	methodology will be		
				to becoming a Cleaner Air	developed for quantifying		
				Borough.	the reduction in emissions		
					and will be facilitated by		
					the provision of the		
					necessary infrastructure		
					and a high quality		
					marketing campaign. It is		
					anticipated that the focus		
					will be on specialist		
					markets such as taxis and		
					mini cabs given the high		
					levels of use throughout		
					this area. The bid awards		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
					are expected by the end		
					of June 2013.		
7. 08.	Development of regional	2007	Planning	Nottingham declaration signed 5 th	Hillingdon Climate	Partnersh	Local
	Air Quality Strategy to		phase	June 2007;	Change Strategy and	ip	Authorities
	tackle cross-boundary			Consultation response to Draft	Carbon Management Plan		
	issues and include all			Climate Change Bill 11 th July 2007	published. Local air		
	National Air Quality			 issues raised included 	quality incorporated into		
	Strategy pollutants,			strengthening the role of local	both documents		
	climate change etc.			authorities in the bill, the inclusion	LSP, Sustainable		
				of other greenhouse gases to	Community Strategy, LDF		
				ensure any trade-offs with issues	and forthcoming Borough		
				impacting on local air quality are	Transport Strategy		
				fully understood and specific			
				aviation comments requiring the			
				inclusion of aviation in the climate			
				change reduction targets.			
				See 7.07 - The west London Air			
				Quality Strategy will be reviewed to			
				cover 2010-2015, this will			
				incorporate relevant measures			
				from the West London Transport			
				Strategy			

Ref		Action	Plan Measure		Original	Progress	Outcome to date	Comments	Local	Responsibilit
					Timesca	with			Authority	у
					le	Measure			Role	
7.	09.	UK	Government	to	2007	Ongoing	Opportunities identified include	Hillingdon working with	Lobbying	Defra
		activel	y support air qua	ality			responses to EU Thematic	2M group to assess		
		improv	/ement	in			Strategy, the PSDH process, the	process needed for UK		
		Hilling	don.				review of the National Air Quality	Govt to be granted a		
							Strategy.	derogation in the area		
							Delegations supported to	around Heathrow.		
							Strasbourg and Brussels to raise	Defra Air Quality Action		
							profile of air quality in Heathrow	plan to meet EU LVs for		
							area	NO2		
							Continued support of the 2M	Came out on 9th June.		
							grouping to seek air quality	Hillingdon acknowledged		
							improvements in the Heathrow	in main GLA exceedence		
							area and also to seek maximum	area 1 due to roads,		
							environmental improvements from	London Hillingdon site by		
							any proposed high speed rail	M4 highlighted and in		
							scheme.	GLA exceedence area 2		
							Hillingdon have been involved in	Heathrow area as		
							initial discussions with Defra re the	separate area. Even with		
							Time Extension Application and	an LEZ scenario (not		
							how the Heathrow Area will be	looked at what this means		
							treated within it.	yet) still going to be		
							Hillingdon continues to engage	exceedences. Is quite		
							directly with the European	detailed and I don't have		

Ref.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
		Timesca	with			Authority	у
		le	Measure			Role	
				Commission to highlight the	enough time to look at yet		
				problems it faces as a	so will just have to be a		
				consequence of the presence of	paragraph acknowledging		
				Heathrow Airport and the density	it's out and we will		
				of the major road network in and	respond etc		
				around the Borough. Also to clarify	http://uk-		
				the position of the Borough relative	air.defra.gov.uk/library/no		
				to any fines that may be imposed	2ten/documents/UK0001.		
				by the Commission for air quality	pdf		
				infractions.	See 4.01 regarding the		
					Aviation Policy		
					Framework		

Ref.	Action Plan Measure	Original Timesca le	Progress with Measure	Outcome to date	Comments	Local Authority Role	Responsibilit y
Package							
8.	Action Plan Management						
8. 01.	Develop and maintain	2010	Ongoing			Local	Environment
	management system for					Authority	al Protection
	implementation of the					Led	Unit (EPU)
	plan.						

Re	f.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
8.	02.	Identify and secure all	2010	Ongoing	S106 sought on new	Ongoing via BSP, Defra	Local	Environment
		potential funding for			developments, BSP funding of	grant, section 106, West	Authority	al Protection
		Action Plan initiatives.			45,000, SCE bids submitted each	Trans BSP	Led	Unit (EPU)
					year for air quality monitoring,			
					modelling and action plan			
					measures.			
8.	03.	Maintain, and where	2010	Ongoing	System in place and expanded as	Funding sought via SCE	Local	Environment
		necessary expand, the			need be (e.g. new station located	for new monitor in	Authority	al Protection
		existing air quality			in hotspot in Hayes)	Ickenham, identified as	Led	Unit (EPU)
		monitoring network.			Actions recommended by 2011	key area in west London		
					review of the monitoring network	Monitoring Network Audit		
					were acted on that year, including	See action 4.11 regarding		
					closure of the Hillingdon Hospital 2	the NOx Sensor Project		
					monitoring station.			
8.	04.	Review and assessment	2010	Ongoing	Rolling programme in place (see		Local	Environment
		of air quality in line with			annual reports on air quality issued		Authority	al Protection
		Defra guidance.			by Hillingdon).		Led	Unit (EPU)
8.	05.	Prioritise measures,	2006	Ongoing	Audit of action plan is underway,		Local	Environment
		providing a schedule for			see also 8.07.		Authority	al Protection
		implementation.			Audit now completed.		Led	Unit (EPU)

Re	ef.	Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
			Timesca	with			Authority	у
			le	Measure			Role	
8.	06.	Provide progress report to	2010	Ongoing	Progress Reports (etc.) submitted	Review of Action Plan	Local	Environment
		Defra on annual basis.			as required.	Funding already	Authority	al Protection
						identified, will be based	Led	Unit (EPU)
						upon air quality modelling		
						and source apportionment		
						underway at the mo by		
						CERC.		
	07.	Review and adapt the	2010	Ongoing	Action Plan review set for late		Local	Environment
		action plan according to			2010, timing will depend upon		Authority	al Protection
		opportunity and			adoption of the mayor's Air Quality		Led	Unit (EPU)
		circumstance.			Strategy and the publication of the			
					UK Time Extension Application to			
					Europe			
					Activities for revision of the Action			
					Plan commenced in 2011 with new			
					source apportionment work. Audit			
					of action plan now completed.			
8.	08.	Maintain consultation	2010	Ongoing	Consulted with various residents	3 aqap progress	Local	Environment
		process to disseminate			group, briefing notes prepared for		Authority	al Protection
		information on progress			business groups.		Led	Unit (EPU)
		against defined targets to						
		other stakeholders.						

	Ref.		Action Plan Measure	Original	Progress	Outcome to date	Comments	Local	Responsibilit
				Timesca	with			Authority	у
				le	Measure			Role	
Ī	8.	09.	Examine potential for the	2007	Ongoing	Continued attendance at bodies		Local	Environment
			development of regional			such as West London Air Quality		Authority	al Protection
			action plan on cross			Group, HATF and APPLE.		Led	Unit (EPU)
			boundary issues.						

10 Conclusions and Proposed Actions

10.1 Conclusions from New Monitoring Data

Exceedences of the annual mean objective for NO₂ continue to occur in the Borough within the AQMA.

- Concentrations at London Hillingdon have continued to increase as the trend over the last four years has continued. This site is representative of public exposure as it is a similar distance from the M4 motorway as the nearby housing. This site is already within the Hillingdon AQMA.
- Concentrations at Hillingdon South Ruislip have increase by 10μg/m³, which is a significant increase given that the site was already exceeding the annual mean AQS objective for NO₂. The site recorded 52μg/m³ in 2012 compared with 42μg/m³ in 2011. It is recommended that the Council investigate what caused this increase in 2012.
- Concentrations at other monitoring sites remained the same or decreased in 2012 compared to 2011. No exceedences of the 1-Hour mean objective for NO₂ were recorded in 2012.

It is recommended to continue monitoring at all locations across the Borough.

10.2 Conclusions relating to New Local Developments

It is recommended that the Council continue to implement the system of checks for all new developments with regards to air quality.

10.3 Other Conclusions

The Council will continue to implement the Air Quality Action Plan measures and link with any updated local or regional policies which may be developed.

10.4 Proposed Actions

There is no need to carry out any Detailed Assessment at this time. Recommended actions are:

- Continue to monitor air pollution across the Borough;
- Investigate what caused the 10µg/m³ increase in concentrations at Hillingdon South Ruislip continuous monitor;
- Continue to implement action plan measures; and
- Proceed to the Annual Progress Report 2014.

Appendices

Appendix A: Quality Assurance / Quality Control (QA/QC) Data

Appendix B: Monitoring Results

Appendix C: Planning Applications during 2012

Appendix A: QA:QC Data

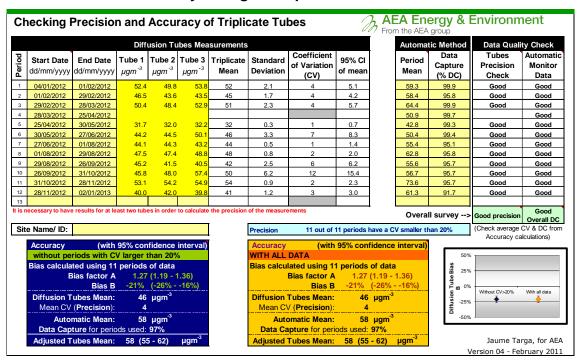
Diffusion Tube Bias Adjustment Factors

A bias adjustment factor of 1.01 reported in the latest version v03_13 of the national database of co-location studies conducted for tubes prepared (50% TEA in acetone) and analysed by Gradko during 2012 has been used to adjust the diffusion tube results.

Factor from Local Co-location Studies

One co-location study was undertaken in 2012 at the AURN site Hillingdon Sipson. The bias factor from this study was 1.27 based on an overall good precision at each site.

Table 13 - Co-loction study Hillingdon Sipson



Discussion of Choice of Factor to Use

LAQM statutory reports from 2007 to 2011 used the locally calculated bias adjustment factor. However, the national bias adjustment factor was used in the 2012 USA. The national bias adjustment factor was used to correct the diffusion tube 2012 results. The basis for this decision is due to the trend in bias adjustment factors over the past few years. The factor of 1.01 is much closer to the trend in factors that have been applied in Hillingdon over the past few years. If 1.27 from the co-location study were applied there would be a significant increase in concentrations at all site.

Whilst using the national factor is not a conservative approach is considered to be a better approach to adjust results when dealing with a Borough-wide set of monitoring sites.

PM Monitoring Adjustment

Particulate Matter is monitored by TEOM at five sites. Results presented in the Progress Report have been VCM-corrected. The parameters used in producing the corrected data are summarised in tables below.

Table 14 - VCM Correction Data Heathrow Green Gates

Summary	Text
Site Name	Heathrow Green Gates
Organisation	Heathrow Airport Ltd
Start Date	01/01/2012
End Date	31/12/2012
TEOM data already corrected with 1.3 factor	No
EPA Constant A	3
EPA Constant B	1.03
Instrument Temperature	25
Instrument Pressure	1013
Instrument reports to local ambient readings	No
Timescale	Hourly
Pressure Site	Ealing - Southall FDMS (EI7)
Temperature Site	Brent - Neasden Lane (BT5)
FDMS Site 1	Sutton - Worcester Park (ST6)
FDMS Site 2	Greenwich and Bexley - Falconwood FDMS (GB0)
FDMS Site 3	Average of remaining sites within range
FDMS Site 3 Warning	FDMS3 Correction includes unratified data.

Table 15 - VCM Correction Data Heathrow LR2

Summary	Text
Site Name	London Heathrow LHR2
Organisation	Hillingdon
Start Date	01/01/2012
End Date	31/12/2012
TEOM data already corrected with 1.3 factor	No
EPA Constant A	3
EPA Constant B	1.03
Instrument Temperature	25
Instrument Pressure	1013
Instrument reports to local ambient readings	No
Timescale	Hourly
Pressure Site	Ealing - Southall FDMS (EI7)
Temperature Site	Brent - Neasden Lane (BT5)
FDMS Site 1	Sutton - Worcester Park (ST6)
FDMS Site 2	Greenwich - Blackheath (GR7)
FDMS Site 3	Average of remaining sites within range
FDMS Site 3 Warning	FDMS3 Correction includes unratified data.

Table 16 - VCM Correction Data Heathrow Oakes Road

Summary	Text
Site Name	Heathrow Oakes Road
Organisation	Hillingdon
Start Date	01/01/2012
End Date	31/12/2012
TEOM data already corrected with 1.3 factor	No
EPA Constant A	3
EPA Constant B	1.03
Instrument Temperature	25
Instrument Pressure	1013
Instrument reports to local ambient readings	No
Timescale	Hourly
Pressure Site	Ealing - Southall FDMS (EI7)
Temperature Site	Brent - Neasden Lane (BT5)
FDMS Site 1	Sutton - Worcester Park (ST6)
FDMS Site 2	Greenwich and Bexley - Falconwood FDMS (GB0)
FDMS Site 3	Average of remaining sites within range
FDMS Site 3 Warning	FDMS3 Correction includes unratified data.

Table 17 - VCM Correction Data Hillingdon Oxford Avenue

Summary	Text
Site Name	Hillingdon 3 - Oxford Avenue
Organisation	Hillingdon

Summary	Text
Start Date	01/01/2012
End Date	31/12/2012
TEOM data already corrected with 1.3 factor	No
EPA Constant A	3
EPA Constant B	1.03
Instrument Temperature	25
Instrument Pressure	1013
Instrument reports to local ambient readings	No
Timescale	Hourly
Pressure Site	Ealing - Southall FDMS (EI7)
Pressure Site Warning	
Temperature Site	Brent - Neasden Lane (BT5)
Temperature Site Warning	
FDMS Site 1	Sutton - Worcester Park (ST6)
FDMS Site 1 Warning	
FDMS Site 2	Greenwich - Blackheath (GR7)
FDMS Site 2 Warning	
FDMS Site 3	Average of remaining sites within range
FDMS Site 3 Warning	FDMS3 Correction includes unratified data.

Table 18 - VCM Correction Data Hillingdon South Ruislip

Summary	Text
Site Name	Hillingdon 1 - South Ruislip
Organisation	Hillingdon
Start Date	01/01/2012
End Date	31/12/2012
TEOM data already corrected with 1.3 factor	No
EPA Constant A	3
EPA Constant B	1.03
Instrument Temperature	25
Instrument Pressure	1013
Instrument reports to local ambient readings	No
Timescale	Hourly
Pressure Site	Ealing - Southall FDMS (EI7)
Pressure Site Warning	
Temperature Site	Kings Cross 4 - Coopers Lane (KX4)
Temperature Site Warning	
FDMS Site 1	Greenwich - Blackheath (GR7)
FDMS Site 1 Warning	
FDMS Site 2	Sutton - Worcester Park (ST6)
FDMS Site 2 Warning	
FDMS Site 3	Average of remaining sites within range
FDMS Site 3 Warning	FDMS3 Correction includes unratified data.

Short-term to Long-term Data adjustment

Concentrations at all sites which recorded less than 75% data capture during 2012 have been annualised according to the method set out in LAQM TG(09) box 3.2. The details of the annualisation have been provided in the table below.

Table 19 - Short-Term to Long-Term Monitoring Data Adjustment

Site	Uncorrected Diffusion Tube Mean (µg/m³)	Annualisation Factor Hillingdon Sipson	Annualisation Factor North Kensington	Annualisation Factor Teddington	Average Annualisation Factor	Annualised Bias Adjusted Concentration (µg/m³)
HD42	45.3	0.94	0.75	1.00	0.90	41.1
HD46	51.5	0.94	0.75	1.00	0.90	46.7
HD48	33.9	0.94	0.75	1.00	0.90	30.8
HD50A	38.9	1.01	1.12	0.97	1.03	40.7
HD55	40.2	0.98	0.89	0.93	0.93	38.0
HD64	39.4	0.94	0.75	1.00	0.90	35.7
HD66	39.1	0.94	0.75	1.00	0.90	35.5
HD68	33.8	0.93	0.73	0.95	0.87	29.8
HD69	42.1	0.94	0.75	1.00	0.90	38.2
HD72	38.2	0.94	0.75	1.00	0.90	34.6
HD76	32.7	0.94	0.75	1.00	0.90	29.7
HD77	32.1	0.94	0.75	1.00	0.90	29.1
HD78	36.8	0.94	0.75	1.00	0.90	33.4
HD79	39.4	0.94	0.75	1.00	0.90	35.7
HD80	43.6	0.94	0.75	1.00	0.90	39.6
HD200	36.0	1.01	1.12	0.97	1.03	37.6
HD201	41.0	1.01	1.12	0.97	1.03	42.8
HD202	31.9	1.01	1.12	0.97	1.03	33.3
HD203	43.9	1.05	1.18	1.02	1.08	48.1
HD204	36.8	1.00	1.15	0.97	1.04	38.7
HD205	41.0	1.00	1.08	0.95	1.01	41.9
HD206	28.9	0.99	1.09	0.94	1.01	29.4
HD207	30.3	0.97	1.10	0.92	1.00	30.5
HD208	28.0	1.06	1.11	0.99	1.05	29.6
HD209	33.0	1.01	1.12	0.97	1.03	34.5
HD210	47.8	1.01	1.12	0.97	1.03	49.9
HD211	32.8	1.00	1.08	0.95	1.01	33.5
HD212	32.4	1.10	1.33	1.08	1.17	38.4
HD213	36.8	1.05	1.18	1.02	1.08	40.2
HD214	47.4	1.01	1.12	0.97	1.03	49.5

QA/QC of Automatic Monitoring

All sites in Hillingdon are managed by the AURN and AEA following the national procedure guidance and standards.

QA/QC of Diffusion Tube Monitoring

Gradko participates in the Workplace Analysis Scheme for Proficiency (WASP), which is an independent analytical performance testing scheme.

According to the summary of laboratory precision published by the LAQM Helpdesk, tubes analysed by Gradko displayed 'Good' precision in 14 out of 16 studies in 2012 (based on spreadsheet version 03/13).

Appendix B: 2012 Diffusion tube monitoring results

						10041						
Tube	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
HD31	52.4	46.5	50.4		31.7	44.2	44.1	47.5	45.2	45.8	53.1	40.0
HD31	49.8	43.6	48.4		32.0	44.5	44.3	47.4	41.5	48.0	54.2	42.0
HD31	53.8	43.5	52.9		32.2	50.1	43.2	48.8	40.5	57.4	54.9	39.8
HD42	47.4	35.1	53.5									
HD43	56.0	44.0	56.5		49.8	38.1	44.0	44.5	42.5	44.3	49.1	23.5
HD46	57.6	41.9	55.2		44.9	32.4	34.8	37.7	37.8	54.0	58.4	34.7
HD46	57.7	42.3	54.8		41.1	40.2	40.9	38.2	37.3	49.4	55.1	48.0
HD46	58.1	42.8	53.5									
HD47	45.1	31.1	46.9			22.5	21.3	24.7	23.8	32.0	39.4	21.5
HD48	38.3	28.2	35.2									
HD49	36.7	27.4	34.9		17.9	17.1	15.0	19.9	23.6	30.7	37.2	20.1
HD50A					29.1	27.1	42.0	36.7	41.0	44.3	53.6	37.6
HD51	47.3	39.7	46.4		27.9	28.0	29.1	33.6	32.8	34.0	44.6	31.1
HD52	50.1	37.9	47.6		32.1	21.5	28.5	30.2	33.2	37.2	56.7	28.0
HD53	54.0	47.0	49.0			34.3	39.5	43.0	45.5	45.2	56.0	28.4
HD55	50.4	37.9	50.4		33.2				38.2	44.0	46.3	21.2
HD56	51.8	37.2	50.1		27.3	27.1	21.6	30.8	30.4	40.5	43.2	39.6
HD57	51.0	29.4	48.8		30.9	28.3	31.5		34.5	42.9	48.7	43.4
HD58	50.4	41.9	48.2		32.0		32.8	40.4	35.1	43.7	49.0	22.5
HD59	52.3	33.0	44.8		26.6	25.3	23.5	29.2	23.1	40.9	45.6	45.2
HD60	41.3	31.9	45.2			23.3	21.3	26.5	25.4	31.6	39.6	32.2
HD61	47.5	38.0	43.1		30.2	28.8	28.6	34.4	34.0	20.6	45.3	21.2
HD64	40.6	34.1	43.5									
HD65	44.1	31.7	42.4		25.9	26.5	26.8	33.4	31.9		84.6	30.9
HD66	42.5	34.2	40.5									
HD67	40.0	30.6	42.8		24.4	23.6	12.3	26.2	26.8	30.5	37.8	22.9
HD68		29.4	38.3									
HD69	43.7	36.7	46.0									
HD70	35.6	24.8	34.2		18.1	16.6	18.5	25.2	22.8	26.9	34.4	19.8

Tube	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
HD72	42.4	30.8	41.3									
HD73	39.7	30.2	36.3		20.1	16.6	19.9	23.7	23.1		35.9	30.0
HD74	40.5	28.8	38.5		25.1	17.0	20.1	23.2	26.4	32.5	38.4	19.6
HD75	40.9	31.0	36.5		17.9	18.2	20.8	25.8	25.5	30.8	39.1	30.0
HD76	39.0	24.6	34.6									
HD77	37.0	27.3	32.1									
HD78	43.5	33.4	33.4									
HD79	43.2	31.6	43.5									
HD80	46.3	35.4	49.2									
HD200					30.1	30.7	30.9	37.8	34.6	41.9	49.9	31.9
HD201					43.3	34.7	30.5	38.1	39.9	52.6	56.6	32.2
HD202					23.1	21.6	23.5	26.0	31.5	38.7	42.5	48.2
HD203					35.7	38.3	40.7	36.0	40.8	54.4		61.7
HD204					31.6		28.6	37.1	36.2	39.0	48.1	
HD205					34.0	38.3		44.1	40.3	42.8	49.9	37.6
HD206					23.8		19.0	28.0	25.0	35.4	39.4	32.0
HD207						27.1	21.0	27.2	23.7	38.0	45.0	30.4
HD208					23.2		20.8		24.2	32.7		38.9
HD209					25.8	30.4	27.2	31.9	32.6	37.4	44.3	34.6
HD210					53.5	35.3	44.7	44.6	42.6	54.8	59.3	47.6
HD211					32.5	25.2		30.1	32.6	38.8	46.0	24.4
HD212		_	_		39.6	29.6		32.7	27.9			_
HD213					34.8	35.7	32.8	37.4	32.7	40.3		43.6
HD214					35.9	43.7	41.0	47.6	48.1	49.2	56.0	57.5

Appendix C: Planning Applications during 2012

Planning acpplications can be viewed at:

http://www.hillingdon.gov.uk/index.jsp?articleid=10058 using the planning references provided.

Planning application where development had begun and/or completed in 2012:

- 4129/APP/2011/453 Redevelopment of site to include 2 x single storey detached buildings with associated drive through for use as A3 (Restaurants and Cafes) with associated car parking, landscaping, cycle store, bin store, ancillary sub-station and alterations to existing vehicular crossover to front (involving demolition of the existing public house).
- 5107/APP/2011/2048 NATS Phase 2 89 Houses Details in compliance with conditions 5 (traffic and car parking arrangements), 6 (demolition and construction management plan), 7 (access), 10 (waste storage /collection areas), 14 (CCTV), 20 (levels), 48 (construction logistics plan), 49 (service and delivery plan), 53 (badger survey), and 61 (tree protection) of outline permission ref: 5107/APP/2009/2348 dated 01/10/2010: Proposed mixed-use redevelopment comprising: 773 dwellings comprising 12no. studios, 152 no. 1bedroom flats, 316no. 2-bedroom flats, 21no. 2-bedroom houses, 23no. 3bedroom flats, 181no. 3-bedroom houses, 59no. 4-bedroom houses and 9no. 5-bedroom houses; Class D1 Primary Healthcare facility including room for joint community use (up to 1085sqm gea); Class C2 Nursing Home (up to 3630sqm gea); Classes A1-A3 Shop units to complement Mulberry Parade (up to 185sqm gea, depending on size of Primary Healthcare facility); Class B1 Business units including site management office (up to 185sqm gea); Energy Centre (up to 220sqm gea) with combined heat and power unit; foul water pumping station; associated access roads from Porters Way (and excluding all access including pedestrian and bicycle access from Rutters Close); 1085 car parking spaces; cycle parking; public open space areas; cycleways and footpaths; and landscaping works.
- 5107/APP/2010/2337 NATS Phase 1 58 Houses Details in compliance with Conditions 7 (Accessibility), 8 (Energy strategy), 9 (Bird hazard management plan), 11 (Code for Sustainable Homes), 13 (Security measures), 14 (CCTV),

15 (Noise mitigation), 16 (Vibration), 17 (Air pollution mitigation), 18 (Phasing), 20 (Levels), 30 (Rainwater/greywater recycling), 46 (Piling method), 50 (Archaeology), 51 (Drainage), 52 (Ecological Mitigation and Management Plan), 53 (Badger survey), 55 (Energy centre air quality), 57 (Cleaner technologies), 61 (Tree protection) of planning permission ref: 5107/APP/ 2009/2348 dated 01/10/2010: Proposed mixed-use redevelopment comprising: 773 dwellings comprising 12 no. studios, 152 no. 1-bedroom flats, 316 no. 2-bedroom flats, 21 no. 2-bedroom houses, 23 no. 3-bedroom flats, 181 no. 3-bedroom houses, 59 no. 4-bedroom houses and 9 no. 5-bedroom houses; Class D1 Primary Healthcare facility including room for joint community use (up to 1085 sq.m gea); Class C2 Nursing Home (up to 3630 sq.m gea); Classes A1-A3 Shop units to complement Mulberry Parade (up to 185 sq.m gea, depending on size of Primary Healthcare facility); Class B1 Business units including site management office (up to 185 sq.m gea); Energy Centre (up to 220 sq.m gea) with combined heat and power unit; foul water pumping station; associated access roads from Porters Way (and excluding all access including pedestrian and bicycle access from Rutters Close); 1085 car parking spaces; cycle parking; public open space areas; cycleways and footpaths; and landscaping works.

32157/APP/2011/872 Mixed use development comprising 7,310 sqm (gea) industrial/warehousing unit (Use Classes B1c, B2, B8); 7998 sqm (gea) retail store (Use Class A1) and petrol filling station, together with associated car parking, landscaping and alterations to adjacent highway.

Planning application from 2012 with baseline air quality assessments where permission has been given:

- 4318/APP/2012/2733 Cherry Lane Primary School, West Drayton Erection of a two storey building and multi use games area, together with cycle storage, bin storage, equipment stores, landscaping, and associated works in connection with the sites use as a school and extension to existing school to provide additional toilets
- 6269/APP/2012/2898 Heathrow Primary School, Harmondsworth Application for the part demolition of the existing building, construction of a two storey extension to the existing school, removal of the existing temporary mobile

- classrooms on site, the addition of a Multi Use Games Area, the reorganisation of the onsite car park, the provision of cycle and scooter parking and associated works.
- 51743/APP/2012/1781 Erection of two storey extension, including part demolition of existing building and associated works.
- 3345/APP/2012/2036 Demolition of school and former caretaker's house to allow for the comprehensive redevelopment of the site to provide a new school, Multi Use Games Area (MUGA), car parking, landscaping and associated development.

The following planning applications were also submitted in 2012 with air quality assessments. However they remain undecided or have been withdrawn:

- 59872/APP/2011/1691 Change of use of, and external alterations to, Apollo and Jubilee to provide a new creative quarter comprising vinyl production, studios, visitors centre, training, office and exhibition space with associated café/bar, retail and leisure facilities (use classes A1, A3, A4, A5, B1, B2, D1 & D2). Change of use and external alterations to Neptune House for mixed use (use classes A3, A4, A5, B1, D1 & D2). New build residential development of 244 units with associated ground floor uses (A1, A3, A4, A5, B1, D1 & D2) and associated access, parking, servicing and landscaping (involving part demolition of Neptune, Apollo and Jubilee buildings) (Application to extend life of permission)
- 65688/APP/2011/2990 Full Planning Permission for a 8751m2 (Gross External Area (GEA)) 240 Bedroom 6 Storey Hotel including Access, Car Parking and ancillary works to the northern section of the site. Full Planning Application Site Area: 3122 m2/0.3122 Hectare. Outline planning permission for 2 approx 325m2 (Gross internal area (GIA) Fast Food Retail Outlets to the southern section of the site. Outline application site area: 3642m2/0.3642 hectare. Restaurant/Fast Food retail outlets details comprise access and layout. (Hybrid Application)
- 41867/APP/2011/1523 Redevelopment of site to accommodate a three storey high building comprised of 40 residential units, with associated car parking and landscaping, including raised soft landscaped amenity over the car park and roof terrace.

- 1933/APP/2011/3078 Alterations and extension to existing building as well as change of use of from Class B1 office building to a Class C1 hotel, to create a 4 storey hotel comprising 112 rooms, function rooms, car, cycle and coach parking, landscaping and new access arrangements
- 3114/APP/2008/2667 reserved matters phase 2 (details of siting, design, external appearance, access and landscaping) (employment uses b1(c), b2 and b8), traffic arrangements, parking and small units in part compliance with conditions 1, 7, 8, and 14 of the secretary of state's appeal decision ref. App/r5510/a/01/1077460 dated 30/08/2002 and planning permission ref.3114/app/2005/2021 dated 13/09/2005 (to allow an extension of time to submit reserved matters).
- 24485/APP/2012/1341 Erection of a mixed use development comprising 39 residential units and a single commercial unit of 117sqm floorspace (Mixed Use Classes A1, A2, A3 and D1), provision of private and shared amenity space, provision of footpath access to towpath, car parking, cycle parking and associated works.
- 4266/APP/2012/1544 & 5 Mixed use redevelopment comprising the erection of a 3,543 sq.m foodstore (GIA) (Use Class A1), (inclusive of delivery areas) with 181 car parking spaces and 32 cycle spaces; 3 additional retail units, totalling 1,037 sq.m (GFA) (Use Class A1 to A5); a 100 sq.m safer neighbourhoods unit (Use Class D1); a 7 storey (plus plant level) 84 bedroom hotel (Use Class C1), with 18 car parking spaces and 16 cycle spaces; together with associated highways alterations and landscaping.
- 38058/APP/2012/1203 Demolition of existing buildings and existing dwelling and erection of 108 residential units, a 50 unit extra care/dementia sheltered housing scheme, 1,529 m2 light industrial floorspace and 437 m2 of restaurant/cafe floorspace associated open space, car parking and landscaping (Outline Application with Access, Layout and Scale being determined).
- 38058/APP/2012/1203 Demolition of existing buildings and existing dwelling and erection of 108 residential units, a 50 unit extra care/dementia sheltered housing scheme, 1,529 m2 light industrial floorspace and 437 m2 of restaurant/cafe floorspace associated open space, car parking and

- landscaping (Outline Application with Access, Layout and Scale being determined).
- 59872/APP/2012/1838 Outline planning application for a mixed use development of the Old Vinyl Factory site including the demolition of up to 12,643 sqm of buildings and construction of up to 112,953 sqm (112,953 sqm includes the retention and re-use of 784 sqm of the Power House and 901 sqm Pressing Plant) of new floorspace. Uses to include up to 510 residential units (maximum area of 49,000 sqm GEA), up to 7,886 sqm of new B1 floorspace, up to 4,000 sqm of A class uses (A1, A2, A3, A4, A5), up to 4,700 sqm of D1 and D2 uses, an energy centre (up to 950 sqm), car parking, works to access and creation of new accesses and landscaping.
- 40652/APP/2012/2030 Erection of a four storey building to provide 6,966sq.m of Class B1(a) Office floorspace, provision of 72 associated car parking spaces at basement level, associated landscaping and ancillary works.
- 40652/APP/2012/2030 Erection of a four storey building to provide 6,966sq.m of Class B1(a) Office floorspace, provision of 72 associated car parking spaces at basement level, associated landscaping and ancillary works.
- 12579/APP/2012/2366 The continuation of existing recycling operations at land to the North and South of New Years Green Lane for an organic composting facility operation to handle a maximum throughput of up to 75,000 tonnes per annum of organic waste for a temporary period of five years
- 15811/APP/2012/2444 4 x 2-storey, 3-bed, semi-detached houses with habitable roofspace and 3 x two storey, 3-bed, detached houses with habitable roofspace with associated parking and amenity space involving demolition of existing B1 office building
- 9420/APP/2011/2119 Redevelopment of the site to provide a 301 bedroom hotel (Class C1) and 4 new industrial units accommodating a combined total 9,562sq.m of floor space (Use Classes B1(b), B1(c), B2 and B8) alterations to access arrangements (including from Hatch Lane), associated landscaping and car parking together (involving demolition of the existing buildings on site).
- 35293/APP/2012/2287 Erection of 2 industrial/warehouse units incorporating 10,961sq.m of Use Class B1(c)/B2/B8 floorspace and ancillary office space, associated car parking, landscaping and service yards.

- 4318/APP/2012/2733 Erection of a two storey building and multi use games area, together with cycle storage, bin storage, equipment stores, landscaping, and associated works in connection with the sites use as a school and extension to existing school to provide additional toilets.
- 43155/APP/2012/1903 Variation of condition 3 of planning permission 43155H/99/326 dated 20th October 1999 to enable operations and restoration of the site to be completed no later than 30th September 2017 and alterations to approved restoration landscaping scheme.
- 68911/APP/2012/2983 New 3 Form of Entry primary school (630 students)
 plus a nursery (45 students) and a Special Resource Provision Unit for
 approximately 12 pupils, associated car parking, hard and soft play areas,
 sports pitches, pedestrian and vehicular access routes and landscaping.
- 2373/APP/2012/2011 Erection of an Anaerobic Digestion Biogas Plant including landscaping, parking and associated works.