

2010 Air Quality Progress Report

Craven District Council

In fulfillment of Part IV of the Environment Act 1995
Local Air Quality Management (LAQM)

Dated May 2010

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Executive Summary

This air quality progress report has been prepared as part of Craven District Council's on-going responsibilities under Part IV of the Environment Act 1995. It summarises the updating and screening phase of the forth round of review and assessment of air quality for 2009.

The UK Government published its strategic framework for air quality management in 1995 establishing national strategies and policies on air quality, which culminated in the Environment Act 1995. As a requirement of the Act, the Secretary of State has since prepared a National Air Quality Strategy. The National Air Quality Strategy provides a framework for air quality control through air quality management and air quality standards. The Expert Panel on Air Quality Standards (EPAQS) had proposed national air quality standards for the UK Government. These air quality standards and their objectives have been enacted through Air Quality Regulations. The Environment Act 1995 required local authorities to undertake an initial air quality review in 2000 with further reviews/assessments every three years in 2003, 2006 & 2009. In areas where air quality objectives are not expected to be met local authorities are required to establish Air Quality Management Areas (AQMA's).

This report has been produced in accordance with Technical Guidance LAQM. TG(09) issued by the Department for Environment, Food and Rural Affairs (DEFRA) under sections 84 and 88 of the Environment Act 1995. Local authorities are required to have regard to this guidance when carrying out any of their duties under or by virtue of, Part IV of the Act.

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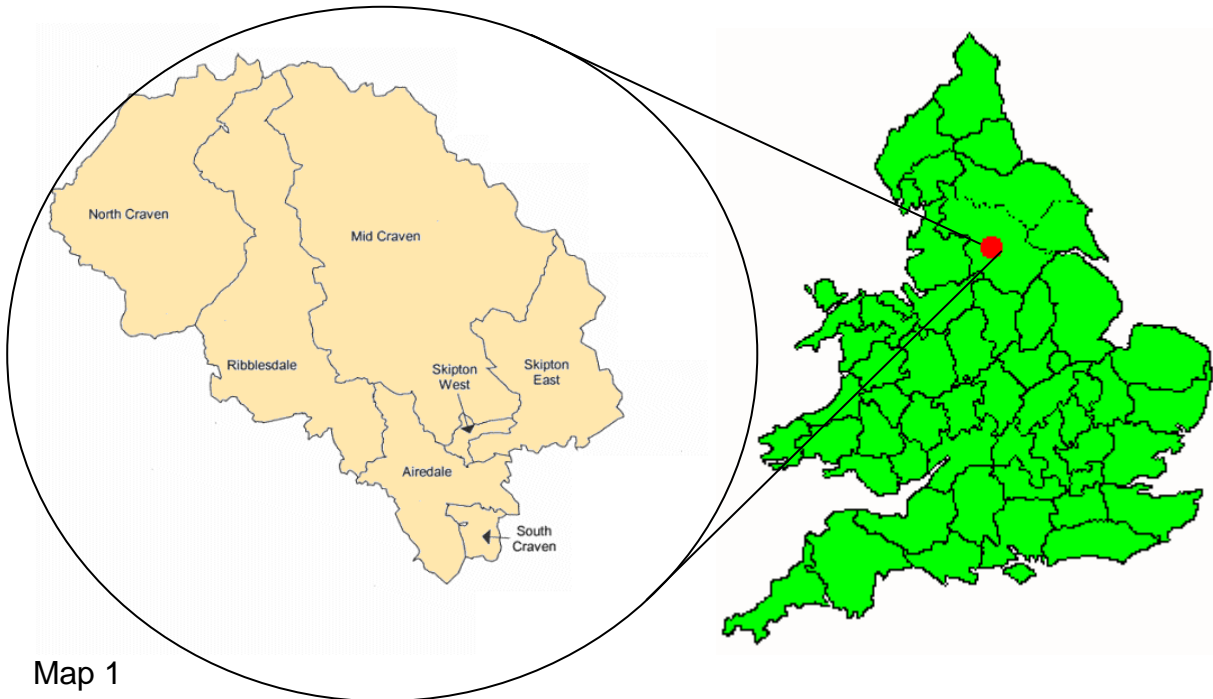
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1 Introduction

1.1 Description of Local Authority Area

Craven District is situated at the western end of North Yorkshire, England's largest county. The area is flanked by Bradford Metropolitan District to the south-east, Harrogate Borough to the east, the Yorkshire Dales National Park to the north, Lancaster District to the north west, Ribblesdale district to the west, and Pendle district to the south and south-west (see map 1).



Map 1

Geography

Craven is one of the most beautiful areas in Northern England. Its outstanding landscape is reflected in the designation of two thirds of the District within the Yorkshire Dales National Park. The District includes the upper reaches of Wharfedale, Ribblesdale, Airedale and part of Lonsdale. With great limestone ridges and caverns between the dales, and fells and moors rising to the higher Pennines, culminating in the Three Peaks of Ingleborough, Wharfedale and Pen-y-Ghent.

Major Sources of pollutants

With no major industrial processes in the the district the main contributing factor to the air quality of Craven is from the road network. The district is served by transport links of both strategic and historic importance. It contains the key trunk routes of the A65 linking the conurbations of West Yorkshire to the Dales and further to the Lake District and the A59 linking Harrogate to the east of the district to Pendle to the west.

1.2 Purpose of Progress Report

Following consultation on the LAQM process, the Government concluded that it was too 'stop-start' and that gaps of several years might occur between air quality reviews. Updating and Screening Assessments are now required at intervals of three years whilst Progress Reports maintain continuity and are to be produced in the intervening years. This Progress Report is a requirement of Government guidance issued in February 2009, (LAQM.TG09) which sets out the timescales for submission of the various reports on air quality. Those local authorities which identified there was no need for a Detailed Assessment in their previous Updating and Screening Assessment (April 2009) are expected to publish a Progress Report in April 2010 and April 2011. The detailed timetable is shown in table 1.1

Table 1.1

Table 1.1: Timescales for Review and Assessment			
Year	Updating and Screening	Progress Report	Detail Assessment
Round 4 – Completion Dates			
2009	30 April 2009	-	Whenever necessary
2010	-	30 April 2010	Whenever necessary
2011	-	30 April 2011	Whenever necessary
Round 5 – Completion Dates			
2012	30 April 2012	-	Whenever necessary
2013	-	30 April 2013	Whenever necessary
2014	-	30 April 2014	Whenever necessary
Round 6 – Completion Dates			
2015	30 April 2015	-	Whenever necessary
2016	-	30 April 2016	Whenever necessary
2017	-	30 April 2017	Whenever necessary

Progress Reports are designed to ensure continuity in the LAQM process and are intended to assist local authorities by –

- Helping retain a profile for LAQM within the authority, including the retention of staff with a knowledge of air quality issues
- Provides a means of communicating air quality information to Council Members and the public
- Maximises the usefulness and interpretation of monitoring data collected by the authority
- Maximises the investment in monitoring equipment and resources
- Provides up-to-date information in a readily available fashion to assist future rounds of Review and Assessment
- Provides a mechanism for local authorities to access information to respond to requests regarding air quality
- Provides information to drive and support air quality measures in other policy areas, such as transport and planning
- Provides a useful resource to assist with planning applications and associated environmental assessments
- Demonstrates progress with the implementation of air quality Action Plans and/or air quality strategies
- Provides an early alert system to identify further measures that may be needed to improve air quality, rather than waiting for the next round of Review and Assessment.

1.3 Air Quality Objectives

The air quality objectives applicable to Local Air Quality Management (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). See Table 1.2 This table shows the objectives in units of microgrammes per cubic metre $\mu\text{g}/\text{m}^3$ (for carbon monoxide the units used are milligrammes per cubic metre, mg/m^3).

This Progress Report considers to the following pollutant: Nitrogen dioxide (NO_2). The Council does not monitor Carbon monoxide, Benzene, 1,3 butadiene, Lead, Sulphur dioxide (SO_2), PM_{10} , ozone, polycyclic aromatic hydrocarbons (PAHs) or any other air pollutant. During 2009 there were no complaints regarding odour and dust emission from regulated industrial sources.

Table 1.2 Air Quality Objectives included in Regulations for the purpose of Local Air Quality Management in England.

Table 1.2

Pollutant	Concentration	Measured as	Date to be achieved by
Benzene	16.25 $\mu\text{g}/\text{m}^3$	Running annual mean	31.12.2003
	5.00 $\mu\text{g}/\text{m}^3$	Running annual mean	31.12.2010
1,3-Butadiene	2.25 $\mu\text{g}/\text{m}^3$	Running annual mean	31.12.2003
Carbon monoxide	10.0 mg/m^3	Running 8-hour mean	31.12.2003
Lead	0.5 $\mu\text{g}/\text{m}^3$	Annual mean	31.12.2004
	0.25 $\mu\text{g}/\text{m}^3$	Annual mean	31.12.2008
Nitrogen dioxide	200 $\mu\text{g}/\text{m}^3$ not to be exceeded more than 18 times a year	1-hour mean	31.12.2005
	40 $\mu\text{g}/\text{m}^3$	Annual mean	31.12.2005
Particles (PM_{10}) (gravimetric)	50 $\mu\text{g}/\text{m}^3$, not to be exceeded more than 35 times a year	24-hour mean	31.12.2004
	40 $\mu\text{g}/\text{m}^3$	Annual mean	31.12.2004
Sulphur dioxide	350 $\mu\text{g}/\text{m}^3$, not to be exceeded more than 24 times a year	1-hour mean	31.12.2004
	125 $\mu\text{g}/\text{m}^3$, not to be exceeded more than 3 times a year	24-hour mean	31.12.2004
	266 $\mu\text{g}/\text{m}^3$, not to be exceeded more than 35 times a year	15-minute mean	31.12.2005

1.4 Summary of Previous Review and Assessment

The first round of review and assessment was split into four stages. Progression to the subsequent stage was dependant upon the result of the previous stage. Stages 1 and 2 carried out in 1999/2000 ultimately concluded that the risk of the air quality objectives for all seven of the specified pollutants; (Carbon monoxide (CO), Benzene, 1,3 Butadiene, Lead (Pb), Nitrogen dioxide (NO₂), Sulphur dioxide (SO₂) and PM₁₀) being exceeded in the Craven District was negligible therefore it was not necessary to progress to Stage 3 or Stage 4.

The subsequent rounds of review and assessment carried out in 2003, 2006 and 2009 respectively concluded that the risk of the air quality objectives considered in those rounds of review and assessment being exceeded was also negligible, referring again to the above pollutants.

The risk of the air quality objectives considered in the current round of review and assessment being exceeded is negligible with the possible exception of Nitrogen dioxide (NO₂).

Results indicate that the NO₂ annual mean objective of 40µg/m³ has not been exceeded at any of the monitoring sites during this period. However, with regard to the 2009 Updating and Screening Assessment bias corrected annual mean of 41µg/m³ at the Long Preston site being only marginally above the LAQM objective of 40µg/m³ a decision was made not to proceed to a Detailed Assessment at that time, but to monitor the situation. At this stage Craven District Council do not intend to declare an Air Quality Management Area (AQMA) in any parts of the district. For further details please refer to Section 2.6, Comparison of Monitoring Results with Air Quality Objectives.

Craven District Council continues to monitor Nitrogen dioxide (NO₂) at sites throughout the district. Results from all the sites have been analysed and collated over the last 12 months (January to December 2009) with the annual mean calculated for each.

2 New Monitoring Data

2.1 Non-Automatic Monitoring - Method used for tube analysis

Nitrogen dioxide (NO₂) diffusion tubes are provided and analysed by Environmental Scientific Group (formally Bureau Veritas) and are typically exposed for four week periods, using a 20% TEA in water preparation method to coincide with the harmonized practical guidance. For details of tube locations, including Ordnance Survey grid references and maps please refer to appendix 4.

Results of laboratory precision and Workplace Analysis Scheme for Proficiency (WASP) have demonstrated satisfactory performance in the analysis of NO₂ diffusion tubes, for the period October 2008 to October 2009 as indicated in the table 2.1 below.

Table 2.1

Laboratory	Performance on basis of RPI, Old Criteria, best 4 out of the 5 rounds 103-107	Performance on basis of RPI, New Criteria, best 4 out of the 5 rounds 103-107
Environmental Scientific Group (Formally - Bureau Veritas – Glasgow	Good	Good

Source: <http://www.laqmsupport.org.uk>

2.2 Estimated background concentrations

Estimated mean background concentrations for oxides of Nitrogen are as follows;

Table 2.2

Year	NO _x (µg/m ³)	NO ₂ (µg/m ³)
2008	8.7	7.5
2009	8.4	7.2
2010	6.4	6.7

(Source: <http://www.airquality.co.uk>)

2.3 Monitoring data 2009 – Nitrogen dioxide (NO₂) Diffusion tubes

Attached at Appendix 1 are the monitoring results for the period January to December 2009 of all the locations monitored, these are all roadside locations, some with near-by residential properties, where pollution levels from traffic emissions are considered to be greatest.

Attached at Appendix 2 is a summary table comparing the NO₂ monitoring results using passive diffusion tubes for the years 2000 to 2009 (bias adjusted figures).

2.4 Nitrogen dioxide Annual Running Mean 2009

Table 2.3 below shows the results from all locations and confirms that the Annual Mean has not exceeded the LAQM Annual Mean of $40\mu\text{g}/\text{m}^3$ at any of the monitoring sites.

Table 2.3

Site No.	Tube Location	Annual Mean 2009 ($\mu\text{g}/\text{m}^3$)
1b	A65 Hartley Green, Long Preston	24
1c	A65, Magna Book Print, Long Preston	25
2	Duke Street, Settle	27
3	High Street, Skipton	29
4a	9 Newmarket Street, Skipton	35
4b	22 Newmarket Street, Skipton	37
4c	60 Newmarket Street, Skipton	26
5	42 Keighley Road, Skipton	27
6	18 Station Road, Crosshills	27
7	46 Main Street, Crosshills	33
11	Aireville Grange, Gargrave Road, Skipton	25

2.5 Nitrogen dioxide Annual Running Mean 2009 - Bias Corrected Figures

Bias Corrected NO_2 concentrations, using a bias factor of 1.06, obtained via calculations using the AEA Dif TPAB v.3 spreadsheet for all locations are indicated in table 2.4 below, indicating that the two Newmarket Street locations are approaching the action level of $40\mu\text{g}/\text{m}^3$. Along with all location results these two sites will continue to be monitored with the intention that should any results produce relevant emerging information this will then be considered with a view to proceeding to a Detailed Assessment.

Table 2.4

Site No.	Tube Location	Annual Mean 2009 ($\mu\text{g}/\text{m}^3$)
1b	A65 Hartley Green, Long Preston	25
1c	A65, Magna Book Print, Long Preston	26
2	Duke Street, Settle	29
3	High Street, Skipton	31
4a	9 Newmarket Street, Skipton	36
4b	22 Newmarket Street, Skipton	38
4c	60 Newmarket Street, Skipton	26
5	42 Keighley Road, Skipton	29
6	18 Station Road, Crosshills	31
7	46 Main Street, Crosshills	35
11	Aireville Grange, Gargrave Road, Skipton	26

Details of Non- Automatic Monitoring Sites

Table 2.5 describes the site type, distance from the kerb, grid reference of each monitoring location, whether it is in an AQMA, and relevant exposure

Table 2.5

Site Ref	Site Type	Pollutant Monitored	OS Grid Reference	AQMA Y/N	Relevant Exposure (Yes/No with distance (m) to Relevant exposure)	Distance from Kerb (m)	Worst-case Location?
1b	Roadside	NO ₂	383466, 458168	N	Yes (2m)	5	Y
1c	Roadside	NO ₂	383452, 458133	N	Yes (2m)	3	Y
2	Roadside	NO ₂	381596, 463580	N	Yes (1m)	2	Y
3	Roadside	NO ₂	399043, 451760	N	Yes (1m)	6	Y
4a	Roadside	NO ₂	399054, 451606	N	Yes (2m)	2	Y
4b	Roadside	NO ₂	399053, 451582	N	Yes (1m)	2	Y
4c	Roadside	NO ₂	399179, 451607	N	Yes (5m)	5	Y
5	Roadside	NO ₂	398828, 451244	N	Yes (4m)	6	Y
6	Roadside	NO ₂	400794, 445148	N	Yes (1m)	4	Y
7	Roadside	NO ₂	400569, 444987	N	Yes (1m)	3	Y
11	Roadside	NO ₂	397685, 452130	N	Yes (1m)	2	Y

2.6 Comparison of Monitoring Results with Air Quality Objectives

Nitrogen Dioxide - Diffusion Tube Monitoring Data

The Council continues to monitor Nitrogen dioxide (NO₂) at sites throughout the district with the inclusion of the two new monitoring sites at Long Preston. Results from all the site have been analysed and collated over the last 12 months (January to December 2009) with the annual mean calculated for each. Results indicate that the annual mean objective of 40µg/m³ has not been exceeded at any of the monitoring sites during this period. All monitoring site locations are representative of relevant public exposure

With regard to the 2009 Updating and Screening Assessment corrected annual mean of 41µg/m³ at the Long Preston site being only marginally above the LAQM objective of 40µg/m³ a decision was made not to proceed to a Detailed Assessment at that time, but to monitor the situation. A further decision was made to site two additional NO₂ diffusion tubes within the vicinity of tube 1a to enable enhanced monitoring at Long Preston. Over time this should result in a more robust assessment of the NO₂ level at this location with the intention that should the results from Long Preston (and indeed from any of the sites) produce relevant emerging information this will then be considered with a view to proceeding to a Detailed Assessment. Unfortunately, due to circumstances beyond the Council's control the initial site (1a) at Long Preston had to be withdrawn in January 2009. With only the 1 partial result (upto 12/01/2009) being obtained this figure has not been included, however data from the two new Long Preston sites are included in this report.

The 2009 results for NO₂ (see appendix 1) meet the national air quality objective of 40µg/m³ or less when expressed as an annual mean (to be achieved by 31st December 2005, (refer to table 1.2) at all locations, including the two new Long Preston sites. No exceedences were identified at any location.

A table showing comparisons of the diffusion tube data for years 2000 to 2009 is included in this report (see appendix 2). Results show a fairly static or downward trend from all sites. This monitoring programme will be continued in 2010. With the loss of Site 1a the two additional sites at Long Preston, 1b and 1c, sited in January 2009 are now providing additional annual average data in this location.

Summary of Compliance with AQS Objectives

Craven District Council has examined the results from monitoring in the Craven District. Concentrations are all below the objectives, therefore there is no need to proceed to a Detailed Assessment.

3 New Local Developments

3.1 Road Traffic Sources

3.1.1 Narrow Congested Street with Residential Properties Close to the Kerb

The threshold for vehicles movements in narrow congested streets with residential properties within 2 metres of the kerb has been reduced from 10,000 to 5,000 vehicles per day. Analysis of vehicle count data provided by North Yorkshire County Council and local knowledge did not identify any properties in the district that met descriptions contained within Box 5.3, Section A1 of the LAQM TG(09)

Craven District Council confirms there are no new/newly indentified congested streets with a flow above 5,000 vehicles per day and residential properties within 2 metres of the kerb, and with traffic speed below 15mph throughout most of the day, that have not been adequately considered in previous rounds of Review and Assessment.

3.1.2 Busy Street Where People May Spend 1-hour or More Close to Traffic

Craven District Council confirms there are no new/newly identified busy streets where people may spend 1 hour or more close to traffic

3.1.3 Roads with a High Flow of Buses and/or Heavy Goods Vehicles's (HGV's)

Craven District Council confirms there are no new/newly identified roads with high flows of buses/HGV's

3.1.4 Junctions

Craven District Council confirms there are no new/newly identified busy junctions

3.1.5 New Roads Constructed or Proposed since the last round or Review and Assessment

Craven District Council confirms that there are no new/proposed roads that fit the relevant descriptions

3.1.6 Roads with Significantly Changed Traffic Flows

North Yorkshire County Council provided average traffic count data. Where traffic counts were available for locations where data had previously been provided the change in vehicle movements were calculated, no increases were greater than 25%, which is prescribed as large or significant in LAQM TG(09). Craven District Council confirms that there are no new/newly-identified roads with significantly changed traffic flows.

3.1.7 Bus and Coach Stations

Craven District Council confirms that there are no relevant bus or coach stations in the Local Authority area.

3.2 Other Transport Sources

3.2.1 Railways (diesel and steam trains)

Approach 1 – Stationary Trains

Craven District Council confirms that there are no locations where diesel or steam trains are regularly stationary for periods of 15 minutes or more, with potential for relevant exposure within 15 Metres as described within Box 5.4, Approach 1 of the LAQM. TG(09).

Approach 2 - Moving Trains

Craven District Council confirms that there are no locations with large numbers of movements of diesel trains, and potential long-term relevant exposure within 30 metres as described within Box 5.4, Approach 2 of the LAQM. TG(09).

3.2.2 Airports

Craven district Council confirms that there are no airports in the Local Authority area.

3.2.3 Ports for Shipping

Craven district Council confirms that there are no shipping ports in the Local Authority area.

3.3 Industrial Sources

3.3.1 New or Proposed Installations for which an Air Quality assessment has been carried out

Craven District Council confirms that there are no new or proposed industrial installation for which planning approval has been granted within its area or nearby in a neighbouring authority

3.3.2 Existing Installations where Emissions have increased Substantially or New Relevant Exposure has been introduced

Craven District council confirms that there are no industrial installations with substantially increased emissions or new relevant exposure in their vicinity within its area or nearby in a neighbouring authority

3.33 New or Significantly Changed Installations with No Previous Air Quality Assessment

Craven District council can confirm that there are no new or proposed industrial installations for which planning approval has been granted within its area or nearby in a neighbouring authority.

3.3.4 Petrol Stations

Craven District Council confirms that there are no petrol stations meeting the specified criteria contained with LAQM TG(09).

3.3.5 Poultry Farms

Craven District Council confirms that there are no poultry farms meeting the specified criteria contained with LAQM TG(09).

3.3.6 Major Fuel Storage Depots Storing Petrol

Craven District Council confirms that there are no major fuel storage depots storing petrol meeting the specified criteria contained with LAQM TG(09).

3.4 Commercial and Domestic Sources

3.4.1 Biomass Plant

Individual Installations

Craven District Council confirms that there are no biomass combustion plants in the district meeting the criteria contained within Box 5.8, Section D1a of the LAQM TG(09).

Combined Impacts

There are no biomass combustion plant in the Craven district and no significant solid fuel burning in the district. It is deemed unnecessary to assess the combined impact of biomass combustion.

Craven District Council confirms that there are no biomass combustion plants in the district meeting the criteria contained within Box 5.8, Section D1b of the LAQM TG(09).

3.5 New Developments with Fugitive or Uncontrolled Sources

3.5.1 Quarries, Landfill Sites, Opencast Mining, Waste Transfer Sites, Materials handling (i.e. ports, major construction sites)

No relevant exposures are present within 200 metres of any of the quarries or landfill sites within Craven District. There have been no complaints or concerns about dust regarding any of the quarries or landfill sites within the district. Where required quarry operators have installed on-site wheel wash facilities that all vehicles are required to use before leaving site, reducing the risk of dust emission or deposits on the public highway.

Craven District Council confirms that there are no new or newly identified local developments in relation to Road Traffic Sources, Other Transport Sources, Industrial Sources, Commercial and Domestic Sources and Fugitive or Uncontrolled Sources which may have an impact on air quality within the Local Authority area.

4 Local / Regional Air Quality Strategy / Air Quality Planning Policies

Craven District Council is committed to meeting the national air quality objectives as defined in LAQM TG(09). For details of Craven District Councils Air Quality Strategy please refer to the following Council Plan 2009-2012, available at:

[http://www.cravencdc.gov.uk/craven/documents/LegalandDemocraticServices/O%20and%20S%20Committee%20\(fromMay07\)/Overview%20and%20Scrutiny%20Committee%202010-01-19/Reports/ITEM%205%20Appendix%20A.doc](http://www.cravencdc.gov.uk/craven/documents/LegalandDemocraticServices/O%20and%20S%20Committee%20(fromMay07)/Overview%20and%20Scrutiny%20Committee%202010-01-19/Reports/ITEM%205%20Appendix%20A.doc)

5 Planning Applications

As part of Craven District Council's continued obligation in meeting the national air quality objectives as defined in LAQM TG(09) consideration is given to all planning applications that may have an impact upon air quality.

6 Local Transport Plans and Strategies

North Yorkshire Local Transport Plan includes achievement of the national air quality objectives as one of its targets. The County Council is working in partnership with North Yorkshire District Councils to improve monitoring and information services and to build up a clearer picture of the impact of motor vehicles on air quality. Copies of the document can be obtained from; <http://www.northyorks.gov.uk/index.aspx?articleid=10384>

7 Climate Change Strategies

Craven District is signed up to Central Governments targets to measure the Council's impacts on the environment and the District's impact on climate change. As part of this commitment and a corporate priority (Action 26) Craven District has produced a Climate Change Strategy which indicates the areas of focus over the next three years. Copies of the document can be obtained from;

<http://www.cravencdc.gov.uk/NR/rdonlyres/BBC842A6-28B3-4810-A20C13B9306A4109/4039/ClimateChangeStrategyandActionPlan200914.pdf>

Proposed actions

- To continue monitoring NO₂ in key locations and carry out Detailed Assessments if deemed necessary. This decision will remain under review, and any relevant emerging information will be considered.
- To carry out an annual review of pollutant levels from the monitoring programme.
- To submit DEFRA progress reports as required.
- To monitor and review any significant changes to the road network, traffic levels and industrial uses.
- To maintain links with relevant services within Craven District Council, and external agencies (e.g. Environment Agency, Highways Authority, other local Authorities etc) on issues impacting on local air quality.

Additional information

The Council has not declared any Air Quality Management Areas (AQMA's) and therefore cannot report progress on implementation of action plans

The Council does not monitor Carbon monoxide, Benzene, 1,3 butadiene, Lead, Sulphur dioxide (SO₂), PM₁₀, ozone, polycyclic aromatic hydrocarbons (PAHs) or any other air pollutant.

During 2009 there were no complaints regarding odour and dust emission from regulated industrial processes.

New developments will be considered in respect of their impact on air quality especially where pollutant levels are likely to fall below national standards. Some developments, such as housing, are particularly sensitive to air pollution and where required local levels of air quality may need to be closely examined at the planning stage.

Conclusions

There have been no significant changes or developments likely to have a negative effect on air pollution in Craven since the Updating and Screening Assessment carried out in 2009.

At the time of this report Craven District Council has no plans to move to a Detailed Assessment for any of the key pollutants however any relevant emerging information will be considered with a view to proceeding to such assessment if required.

Previous reports have indicated that the Government's objectives are being, or will be achieved for all the key pollutants of concern by the due dates. National measures to reduce emissions by road vehicles appear to be having the desired effect of reducing air pollution and ensuring compliance with the Governments objectives.

The Council continues to monitor NO₂ at 11 locations around the district. This report supplements previous reports by providing updated data and details about these monitoring locations and showing trends over a number of years. Concentrations of NO₂ are predicted to continue to meet the 2005 Objectives.

The next Updating and Screening Assessment is due in 2012.

Further information concerning this report or local air quality issues in general may be obtained from David Tanner, Environmental Health Officer, Environmental Protection, Craven District Council on (01756) 706382 or dtanner@cravendc.gov.uk

Appendices

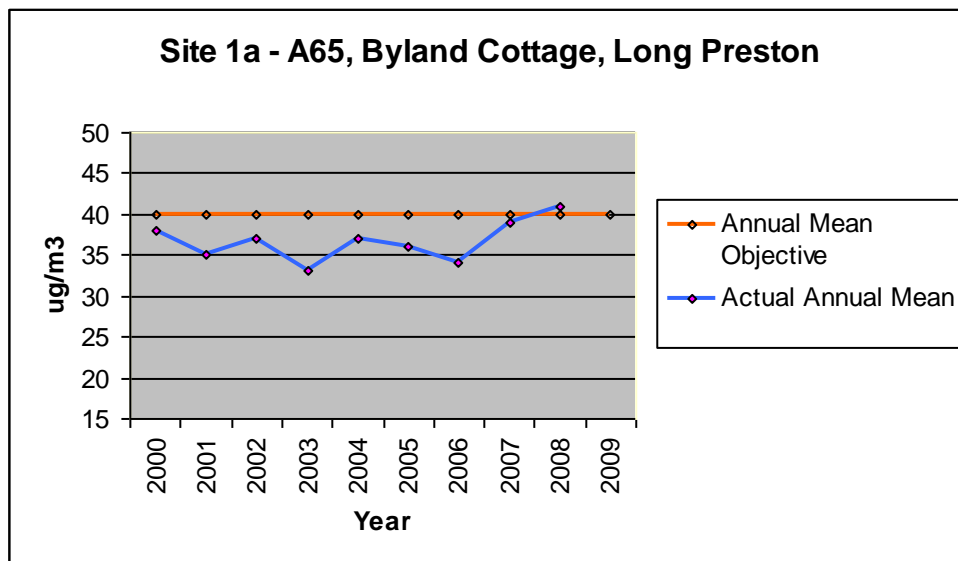
Site	Location		Nitrogen dioxide (NO ₂) Survey 2009 (Results in ug/m ³)											
Tube No.		Data Capture (%)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1a	A65, Byland Cottage, Long Preston													
	Running Mean	N/A	Location removed - Permission to site diffusion tube withdrawn											
1b	A65, 6 Hartley Green, Long Preston		33	25	12	40	16	14	24	18	22	27	28	30
	Running Mean	100%	33	29	23	28	25	23	23	23	23	23	24	24
1c	A65, Magna Print, Long Preston		37	25	11	26	18	22	24	16	16	24	49	31
	Running Mean	100%	37	31	24	25	23	23	23	22	22	22	24	25
2	Duke Street, Settle		33	23	31	33	21	29	23	27	27	31	19	28
	Running Mean	100%	29	29	29	29	28	28	29	29	28	28	28	27
3	High Street, Skipton		30	28	NA	25	23	26	26	24	30	33	35	38
	Running Mean	99.16%	32	32	0	32	30	30	30	30	29	30	30	29
4a	9 Newmarket Street, Skipton		31	28	41	38	32	34	35	29	40	36	37	39
	Running Mean	100%	31	30	33	35	34	34	34	34	34	34	35	35
4b	22 Newmarket Street, Skipton		32	33	36	37	36	34	35	38	35	42	44	43
	Running Mean	100%	32	33	34	35	35	35	35	35	35	36	37	37
4c	60 Newmarket Street, Skipton		29	25	21	27	24	25	29	25	23	29	23	28
	Running Mean	100%	22	21	22	22	24	26	29	28	28	27	27	26
5	42 Keighley Road, Skipton		28	24	28	26	29	26	25	23	29	27	26	29
	Running Mean	100%	32	31	30	31	31	31	31	30	29	28	28	27
6	18 Station Road, Crosshills		23	22	30	26	23	22	22	27	24	29	29	43
	Running Mean	100%	31	30	31	31	29	29	29	29	27	27	27	27
7	46 Main Street, Crosshills		33	27	37	41	34	31	34	26	35	32	27	42
	Running Mean	100%	31	30	31	32	32	32	33	33	32	33	32	33
11	Aireville Grange, Skipton		36	33	22	25	18	18	18	17	19	33	29	28
	Running Mean	100%	29	29	29	28	27	27	27	27	26	27	25	25

Comparison of Annual Running Mean - NO₂ Years 2000 to 2009

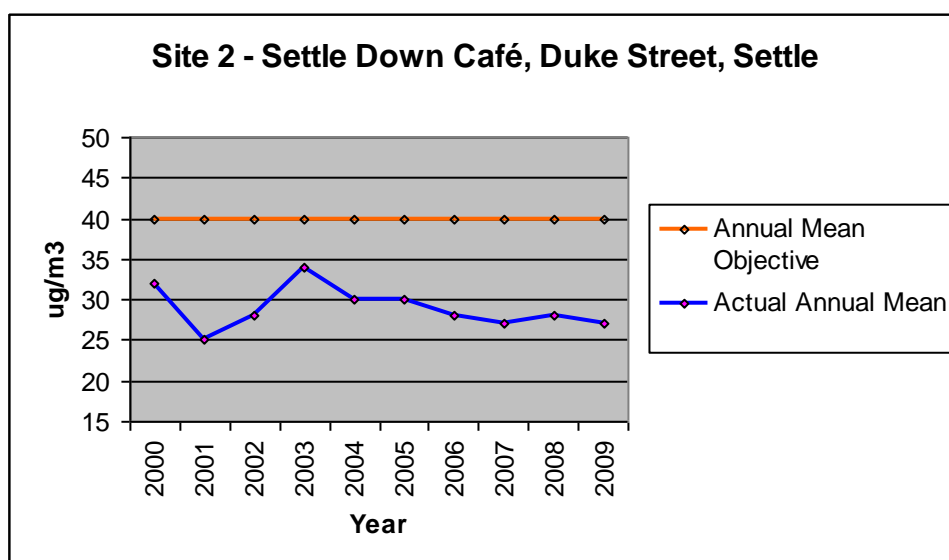
Craven District Council		NO₂ - Annual Running Mean Results 2000 to 2009 (µg/m³)									
Diffusion Tube Location	Site No.	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
		Air Quality Objective 40µg/m³ (Annual Mean)									
A65, Byland Cottage, Long Preston	1a	38	35	37	33	37	36	34	39	41	
A65, 6 Hartley Green, Long Preston	1b										25
A65, Magna Print, Long Preston	1c										26
Duke Street, Settle	2	32	25	28	34	30	30	28	27	28	29
High Street, Skipton	3	28	31	31	33	30	29	27	28	32	31
9 Newmarket Street, Skipton	4a	34	32	39	40	38	37	38	38	37	36
22 Newmarket Street, Skipton	4b							37	37	39	38
60 Newmarket Street, Skipton	4c							30	27	27	26
42 Keighley Road, Skipton	5	37	33	30	33	32	30	28	34	33	29
18 Station Road, Crosshills	6	35	26	27	24	29	29	29	30	31	31
46 Main Street, Crosshills	7	42	30	27	30	31	36	31	32	34	35
A59, Sulphur Well, Broughton	8	17	18	16	18	18	17	22	18	21	26
Main Street, Grassington	10						18	16	18	18	
Aireville Grange, Gargrave Road, Skipton	11									28	25

Appendix 2

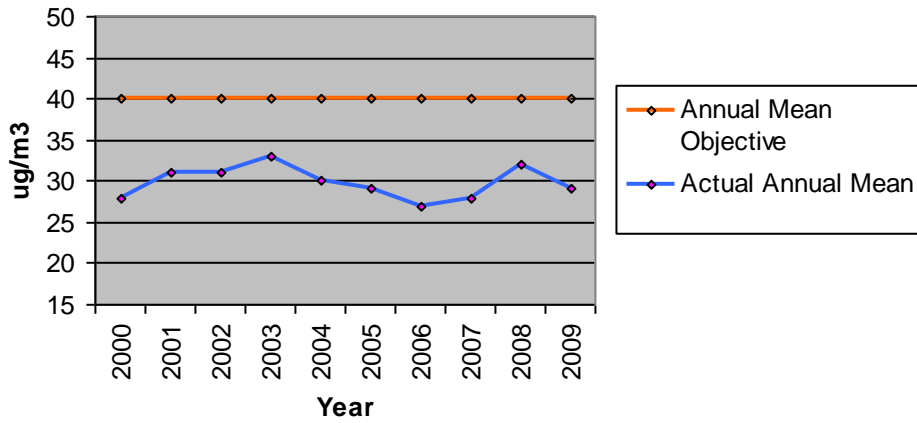
The following graphs show the trends in concentrations of annual mean NO₂ over the last ten years at each monitoring site across the district in comparison to the Annual Mean Objective of 40µg/m³



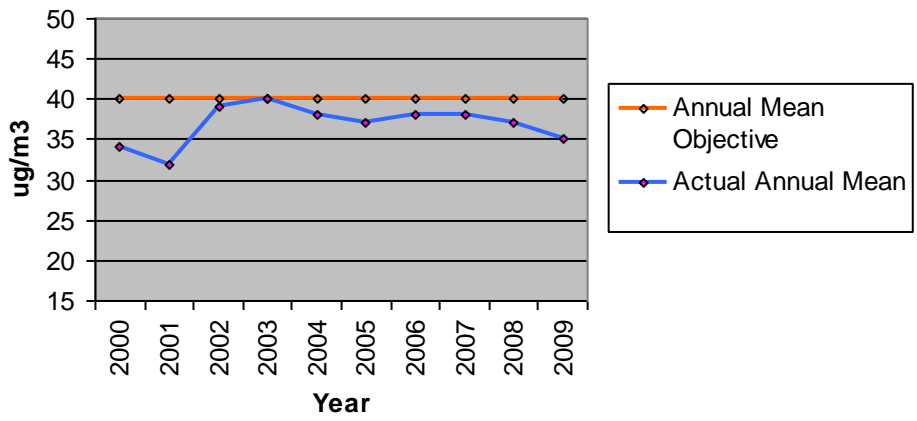
Note: Tube 1a withdrawn in January 2009 (withdrawn consent). Two new sites were identified in January 2009 and identifiable as 1b & 1c. At the present time there is insufficient data for these new locations



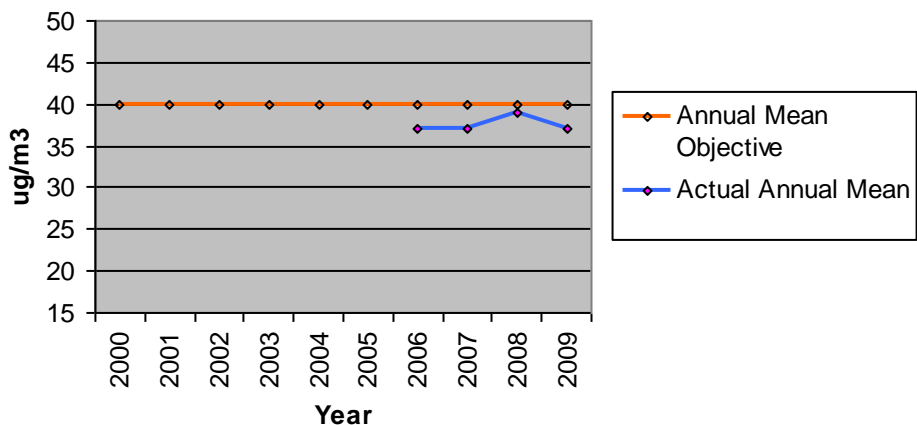
Site 3 - High Street, Skipton



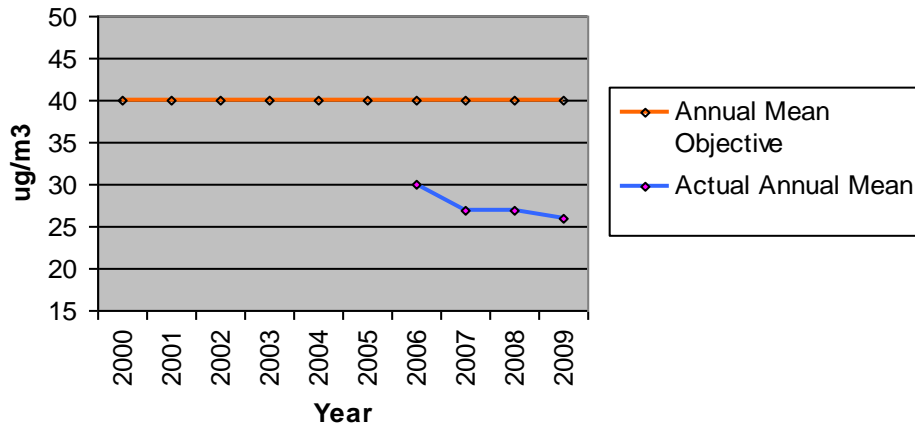
Site 4a - 9 Newmarket Street, Skipton



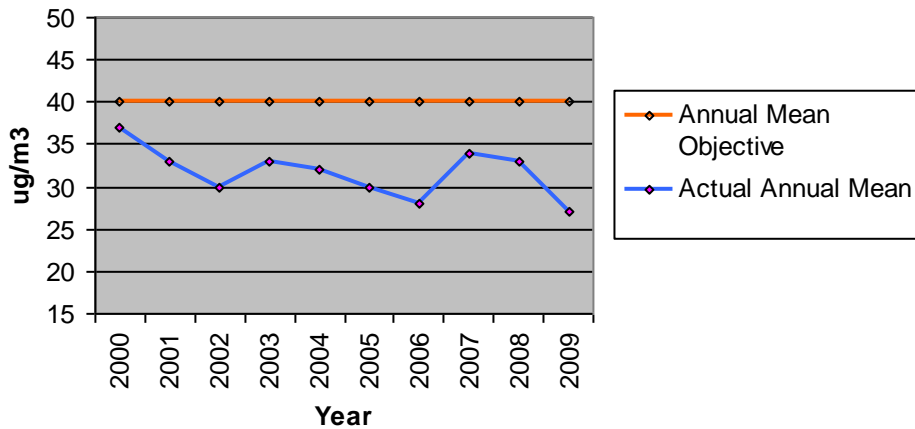
Site 4b - 22 Newmarket Street, Skipton



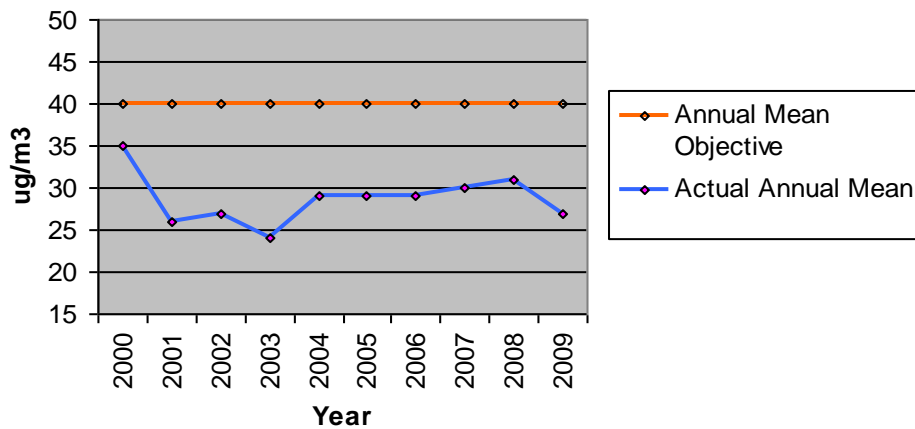
Site 4c - 60 Newmarket Street, Skipton



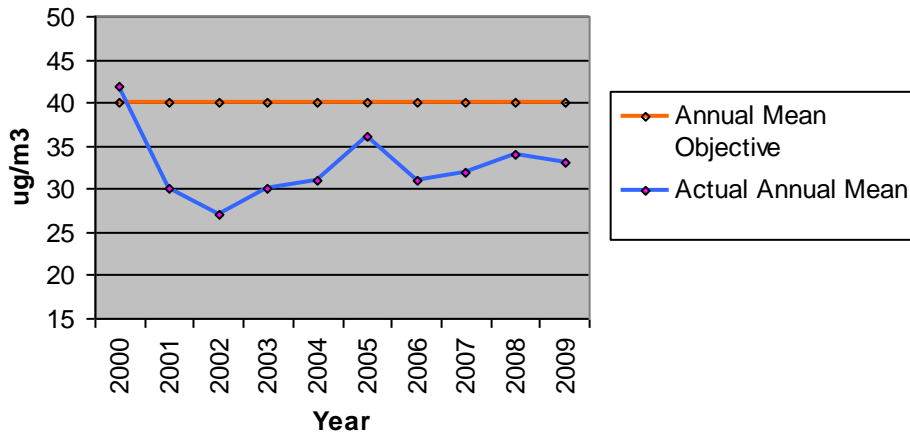
Site 5 - 42 Keighley Road, Skipton



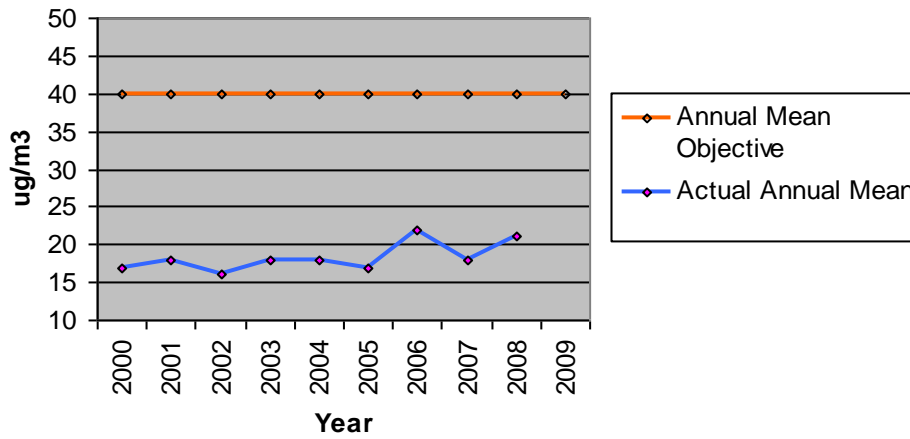
Site 6 - 18 Station Road, Crosshills



Site 7 - 46 Main Street, Crosshills

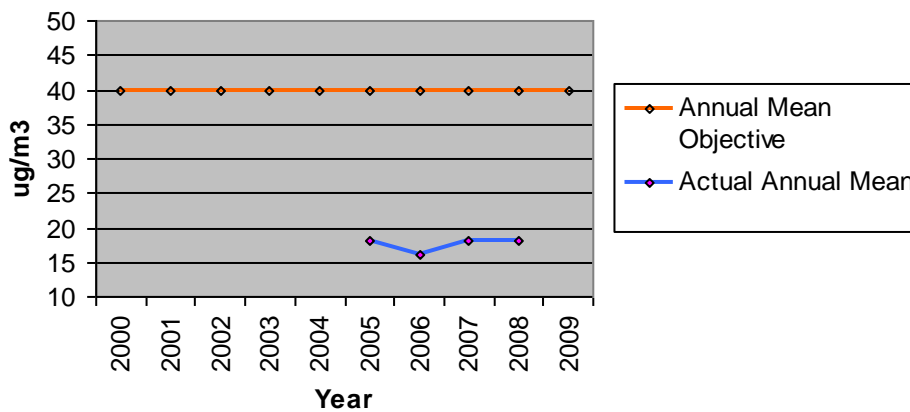


Site 8 - A59, Sulphur Wells, Broughton

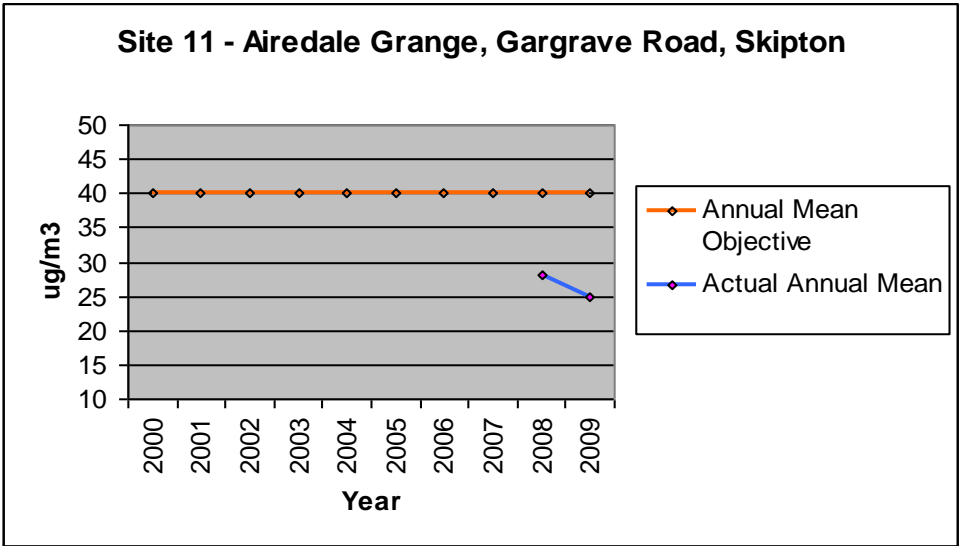


Tube withdrawn January 2009 due to consistently low results over time

Site 10 - Main Street, Grassington



Tube withdrawn January 2009 due to consistently low results over time



Tube introduced due to increased traffic flow near the construction site of the new Skipton Building Society Headquarters, which in time may result in an increased traffic flow in this area of Skipton

Maps showing Monitoring Locations

Long Preston Sites



* Site Ref 1a. Byland Cottage,
Long Preston. Tube removed Jan 2009
Grid Ref: 383464, 458166

Site Ref 1b. A65, Hartley Green,
Long Preston
Grid Ref: 383466, 458168

Site Ref 1c. A65, Magna Print, Long
Preston
Grid Ref: 383452, 458133

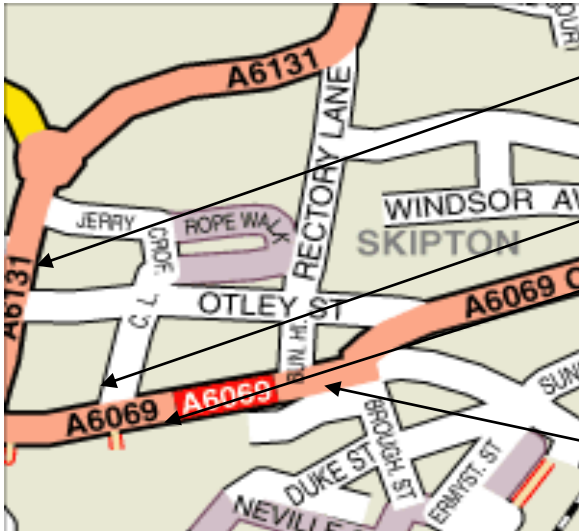
* Location included for comparison and to indicate proximity of new locations

Duke Street, Settle



Site Ref. 2, Duke Street, Settle
Grid Ref: 381596, 463580

Skipton Sites



Site Ref 3. High Street, Skipton
Grid Ref: 399043, 451760

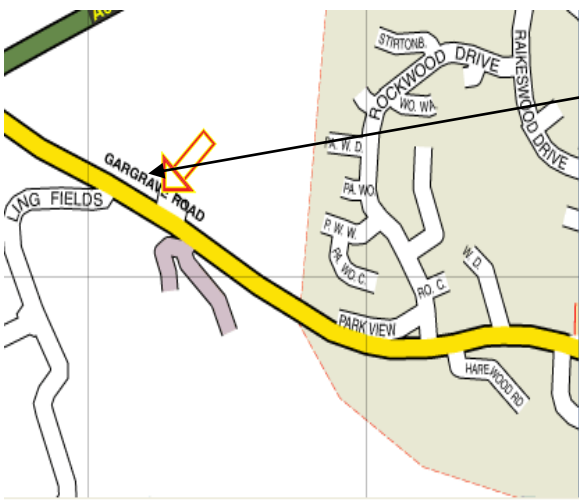
Site Ref 4a. 9 Newmarket Street, Skipton
Grid Ref: 399054, 451606

Site Ref 4. 22 Newmarket Street, Skipton
Grid Ref: 399053, 451582

Site Ref 4c. 60 Newmarket Street, Skipton
Grid Ref: 399179, 451607



Site Ref 5. 42 Keighley Road, Skipton
Grid Ref: 398828, 451244



Site Ref 11. Gargrave Road, Skipton
Grid Ref: 397631, 452127

Crosshills Sites



Site Ref 6. 18 Station Road, Crosshills
Grid Ref: 400794, 445148



Site Ref 7. 46 Main Street, Crosshills
Grid Ref: 400569, 444987

Source: streetmap.co.uk

References

Craven District Council. (2010) **Council Plan 2009-2012**. [Internet]. Craven District Council. Available from <[http://www.cravencd.gov.uk/craven/documents/LegalandDemocraticServices/O%20and%20S%20Committee%20\(fromMay07\)/Overview%20and%20Scrutiny%20Committee%202010-01-19/Reports/ITEM%205%20Appendix%20A.doc](http://www.cravencd.gov.uk/craven/documents/LegalandDemocraticServices/O%20and%20S%20Committee%20(fromMay07)/Overview%20and%20Scrutiny%20Committee%202010-01-19/Reports/ITEM%205%20Appendix%20A.doc)> [Accessed 18 March 2010].

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