

2. EVIDENCE OF A COMPREHENSIVE MONITORING REGIME

A comprehensive monitoring programme has been developed throughout the districts to monitor air quality. Each authority is dealt with below.

Bradford

Automatic Monitoring Locations

Monitoring Station	Location	Grid Reference	Pollutants Monitored	Monitoring Since
Urban centre	Bradford Centre (<i>N.B. Closed from 1/10/07</i>)	416654 / 433049	SO ₂ , NO _x , CO, PM ₁₀	1998
Urban centre	Bingley	410881 / 438942	NO _x , PM ₁₀	1998
Urban centre	Keighley	406065 / 441270	NO _x , SO ₂ , PM ₁₀	1998
Roadside	Mobile (Shipley)	414920 / 437587	NO _x , SO ₂ , PM ₁₀	1998
Kerbside	Shipley Airedale Rd	416967 / 433265	NO _x	1998
Kerbside	Manningham Lane	415887 / 433047	NO _x	2006
Kerbside	Manchester Rd	415933 / 430569	NO _x	2006
Kerbside	Thornton Rd	415887 / 433047	NO _x	2006

Diffusion Tube Monitoring

Bradford has a network of diffusion tubes used to monitor background levels of NO₂, the numbers and locations vary during the year. As with other districts, these tubes are used to help identify compliance with standards.

Modelling capability

ADMS Urban.

Calderdale

Automatic Monitoring Locations

Monitoring Station	Location	Grid Reference	Pollutants Monitored	Monitoring Since
Urban roadside	Wakefield Rd, Brighouse TC	414800/422930	NOx	April 2007
Urban roadside	Salterhebble Hill, near Bristol St junction, Halifax	409788/423194	NOx	Nov 2007
Urban roadside	Huddersfield Rd, Salterhebble, Halifax	409485/423430	NOx	July 2004
Urban roadside	Market St, Hebden bridge, near Salem junction	398990/427207	NOx	Nov 2005
Urban roadside	Carlton Mill, Wharfe St, Sowerby Bridge	406074/423615	NOx	Nov 2005

Diffusion Tube Monitoring

Passive diffusion tubes are located at 99 sites across Calderdale. There are a range of monitoring site types, used to help identify annual average NO₂ concentrations and compliance with relevant air quality standards.

Modelling Capability

ADMS Urban.

Kirklees

Automatic Monitoring Locations

Monitoring Station	Location	Grid Reference	Pollutants Monitored	Monitoring Since
Trailer 1 - Roadside	Old Fieldhouse Lane / Leeds Road	416030/418390	CO, SO ₂ , NO _x , O ₃ , PM ₁₀	April 2001
Trailer 2 – Urban background	Back Ravens Street, Dewsbury	417030/420060	NO _x , PM ₁₀ , O ₃ , SO ₂	December 2006
Roadside Unit 1	Scout Hill, Dewsbury (A644)	423257/420769	NO _x and PM ₁₀	March 2004
Roadside Unit 2	A638, Bradford Road, Cleckheaton	418200/426500	NO _x and PM ₁₀	March 2005
Roadside Unit 3	B6121, Hunsworth Lane, Cleckheaton	418840/427480	NO _x and PM ₁₀	December 2006
Roadside Unit 4	A651, Bradford / Oxford Road, Birkenshaw	420420/427350	NO _x and PM ₁₀	December 2006
Roadside Unit 5	A644, Huddersfield Road, Ravensthorpe	422560/420420	NO _x and PM ₁₀	December 2006
University of Huddersfield – Urban Centre	A629 / A62 Ring Road	414850/416500	NO _x and SO ₂	January 2004
Holmfirth – Urban background	Holmfirth Adult Education Centre	414340/408530	SO ₂	April 2004

Diffusion Tube Monitoring

Passive monitoring in the form of diffusion tubes have been conducted at 64 different sites across the Kirklees district. These tubes have been employed to help identify compliance against the annual average NO₂ standard.

Modelling Capability

ADMS Urban

Leeds

Automatic Monitoring Locations

Monitoring Station	Location	Grid Reference	Pollutants Monitored	Monitoring Since
Urban centre	AURN site, Woodhouse Lane	429967/434253	CO, SO ₂ , NO _x , O ₃ , PM ₁₀ , Benzene	1993
Urban kerbside	Headingley A660	427987/436051	NO _x , PM ₁₀	1998
Urban kerbside	Corn Exchange, Vicar Lane	430358/433422	NO _x , PM ₁₀	1997
Urban roadside	Haslewood Close, A64	431284/433710	NO _x	2000
Urban background	West Street car park	429010/433617	NO _x	2003
Urban roadside	Compton Road	432399/434867	NO _x	March 2007
Sub-urban background	Copperfield College	432068/432645	NO _x , SO ₂ , PM ₁₀	April 2007
Sub-urban background	Garforth Community College	440163/432562	SO ₂	1998
Sub-urban background	Middlecross Day Centre, Armley	427676/433262	NO _x , SO ₂ , PM ₁₀	October 2007
Urban roadside	Norman Row, Kirkstall	426277/435813	NO _x	March 2008
Urban background	Millshaw	427898/430039	NO _x , PM ₁₀	January 2005
Urban roadside	Queen's Court, Morley	426332/427867	NO _x	2004

Diffusion Tube Monitoring

Passive monitoring using diffusion tubes takes place at 44 varied sites within the Leeds district. This monitoring is undertaken to help establish compliance against the annual average NO₂ standard.

Modelling Capability

Airviro model, system upgraded March 08 (Version 3.11).

Wakefield

Automatic Monitoring Locations

Monitoring Station	Location	Grid Reference	Pollutants Monitored	Monitoring Since
Castleford	Castleford	443436/425490	NO ₂ , SO ₂ , PM ₁₀	June 1999
South Kirkby	South Kirkby	445571/411090	NO ₂ , SO ₂ , PM ₁₀	July 1999
Wakefield City	Wakefield City	433718/420371	NO ₂ ,SO ₂ ,PM ₁₀ ,CO	July 2000
Horbury Road	Horbury Rd	430607/418936	NO ₂ ,PM ₁₀	February 2003
Ladybalk	Ladybalk	445630/422920	PM ₁₀	March 2001
Newton Bar	Newton Bar	432736/421838	NO _x ,PM ₁₀	July 2007
Anglers	Anglers	430607/415380	PM ₁₀ , O ₃	March 2001

Diffusion Tube Monitoring

Passive diffusion tube monitoring has been conducted at approximately 106 sites within the Wakefield district. These tubes have been located at a range of site locations, to help identify compliance with the annual average NO₂ standard.

Modelling Capability

ADMS Urban