



Air Quality Management

BMT Cordah Limited

The Environment Act 1995, Environmental Protection Act 1990 and the Pollution Prevention and Control Act 1999 are currently the principal legal instruments now employed in the UK to control emissions to the environment.

BMT Cordah Limited offers a focused service in the UK and internationally on all aspects of air pollution to clients wishing to confront the challenges of environmental control and regulatory compliance, including:

- baseline air quality surveys
- air quality monitoring
- air dispersion modelling studies
- odour impact assessments
- abatement technology advice
- legislation review advice
- PPC applications

BMT Cordah have a team of expert staff with extensive experience and technical understanding of a large number of air pollution problems, covering a wide range of industrial sectors:

- power sector and manufacturing industries: modelling of plume dispersion
- transport sector: impact of vehicle exhaust emissions, shipping, railways
- waste water sector: sewage works odours
- waste sector: landfill gas, incineration
- mineral extraction: fugitive dust emissions
- nuclear industry: air dispersion modelling

Baseline Air Quality Data Review

- assessment of accuracy and reliability of data
- assessment of suitability and sensitivity of monitoring techniques
- statistical analysis of data
- comparison of data with recommended air quality standards and guidelines with monitored results from other similar localities
- recommendations for additional monitoring

Air Quality Monitoring

- ambient monitoring of gaseous and particulate air pollutants
- design and management of detailed monitoring programmes appropriate to locality and requirements of the study
- design and management of appropriate monitoring protocols

Air Dispersion Modelling Studies

- use of state-of-the-art UK and US EPA air dispersion models (e.g. ADMS, AERMOD)
- modelling for a range of emission, topographical and meteorological scenarios
- long-term and short-term predictions for emissions from a wide range of sources
- quantitative risk assessment (QRA) of results
- emergency planning

Abatement Technology and Advice

- advice on the methods used for air pollution abatement control of gaseous and particulate emissions
- evaluation of Best Available Techniques (BAT) and Best Practicable Environmental Option (BPEO)
- determination of fugitive emissions and their control

Legislation Review and Advice

- completion of IPPC and waste management licence applications
- advice on the interpretation of environmental and air pollution abatement control legislature
- provision of expert evidence at public inquiries, courts of law and public meetings.

Compilation of Emissions Inventories

- Local Authorities: including all source types such as road traffic, industrial, domestic, rail and shipping for LAQM.
- Site Specific: for large industrial sites such as oil terminals including point sources and fugitive emissions sources.

Local Air Quality Management

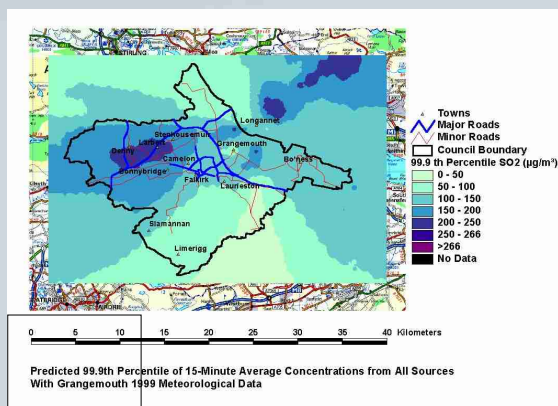
How BMT Cordah can Help

BMT Cordah have developed a systematic approach to undertaking local Air Quality Management (LAQM) Review and Assessments as required of Local Authorities in the UK by the 1995 Environment Act. BMT Cordah have prepared numerous Stage 1,2 and 3 Reports for Local Authorities in Scotland, and have undertaken dispersion modelling studies that have contributed to reports being prepared by the Local Authorities themselves.

Local Air Quality Management

The first round of Review and Assessment is now complete and many Local Authorities have declared an Air Quality Management Area (AQMA) and developed an Action Plan to ensure compliance with the National Air Quality Strategy (NAQS) objectives by 2005. The majority of Local Authorities do not need to declare an AQMA but may need to review or change monitoring strategies or compile an emissions inventory for their area. Some may want to develop an Action Plan anyway during the second round of Review and Assessment which commenced in 2003.

Whatever the position of your Local Authority, BMT Cordah have an experienced team of consultants who can help.



Dispersion Modelling of all Industrial SO Emissions within the Falkirk Council area for Stage 3 Review and Assessment

Services Offered by BMT Cordah

Outlined below are a number of services which BMT Cordah can offer to Local Authorities to assist them in meeting their statutory obligations of LAQM.

- design and implementation of monitoring strategies
- site selection for monitoring equipment
- review and assessment of background concentrations
- screening modelling using the DMRB model
- detailed dispersion modelling studies using the ADMS suite of models or AERMOD
- compilation of electronic emission inventories
- evaluation of proposed traffic management schemes
- development of Action Plans
- preparation of report for submission to the Scottish Executive or DEFRA
- presentations for and liaison and meeting with SEPA and the EA, industry, the general public and the Scottish Executive and DEFRA
- design and management of stakeholder consultations processes

Services Offered by BMT Cordah

- Angus Council
- Ards Burgh Council
- Clackmannanshire Council
- East Lothian Council
- Falkirk Council
- Glasgow City Council
- North Lanarkshire Council
- Moray Council
- Scottish Borders Council
- Scottish Environment Protection Agency
- South Ayrshire Council
- Stirling Council.



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