

IAQM RECOMMENDATIONS ON MODEL USE WITHIN AIR QUALITY MANAGEMENT ASSESSMENTS

IAQM Recommendation 1. Only models for which evaluation projects have been undertaken and reported in peer reviewed and published studies should be used. Any limitations to model applications should be stated clearly, specifying in which situations the use of the model is appropriate.

IAQM Recommendation 2. Presentation of the results of a modelling study should include full details of the input data, justification for their use and an indication of the model's sensitivity to expected variations in input data. This may be based on previous experience of the model use, though in some instances it may also be appropriate to carry out analyses of the model's sensitivity to expected variations in input data.

IAQM Recommendation 3. The underprediction of pollutant concentrations by current models in use, in locations where traffic is slow moving and congested and where buildings may be present, should be investigated by model developers, with models being subsequently revised and evaluated accordingly. The IAQM is aware that interim DMRB adjustment factors have been proposed but these have not been fully evaluated. At locations where this is a matter of concern, a local verification study would need to be carried out.

IAQM Recommendation 4. Those carrying out modelling are encouraged to document the model adjustment factors that they have used, so a national database of model adjustment factors could be developed as an aid to improving models and their applications.