

Odour dispersion modelling

Application environment

Processing operations of any nature that are located within large urbanised areas need to ensure strict environmental compliance, especially where potential nuisance by odour can escalate into complaints, investigation and enforcement. Failure to act on odour emissions can destroy local public relations, attract bad publicity and ultimately result in financial penalties and restrictions on operations.

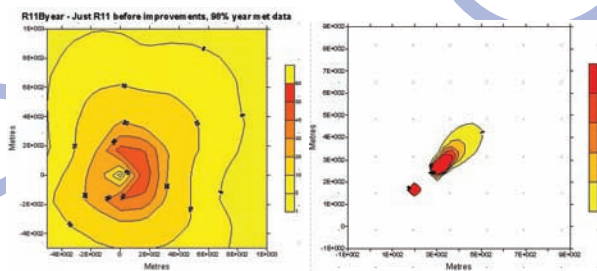
Product Aim

As the logical extension of in-depth odour analysis, odour dispersion modelling provides a comprehensive representation of the odour source and its manipulation by local topographic and meteorological conditions. It concludes with a clear presentation of the impact of the odour on the local environment.

How it works

Various data is drawn together and entered into the modelling software by our trained consultants. Data includes odour emission rates for the relevant odour sources on a client's site, topographical data detailing the surrounding building structures and lie of the land and local meteorological data. Together this data is comprehensively analysed and conclusions drawn by our consultant as to its relevance to a particular matter of concern for the client. Once a model has been established then it can always be re-run in the future if new data is derived.

A presentation consisting of a written summary, meteorological data, wind mapping and dispersal topographical data, odour nuisance probability data and projected odour thresholds is provided. It presents a visual interpretation of an odour problem and its potential dispersal in the local area. Zoned maps can be produced to indicate the odour concentration at various points on the local geography. Potential odour complainants can then be identified and a methodology established to specifically reduce the odour to them.



This report enables Air Spectrum Environmental to advise on and provide the correct technology to resolve the odour nuisance. Clients can be confident that any recommended abatement solution is based upon accurate research specific to their site and is more likely to achieve all of the objectives required of it.