

<b>Current Position:</b>	Principal Consultant with Air Quality Consultants Ltd.
<b>Year of Birth:</b>	1982
<b>Nationality:</b>	British
<b>Qualifications:</b>	BSc (Hons) Geography (2003) MSc Applied Meteorology and Climatology (2005)
<b>Positions held:</b>	Chartered Scientist (CSci) Member, Institute of Environmental Sciences (MIES) Member of Institute of Air Quality Management (MIAQM)

## Key Experience:

Suzanne has over nine years' experience in the field of air quality and has experience in carrying out a wide range of air quality assessments covering new residential, commercial and industrial developments. She has been involved in local air quality management for local authorities and has carried out ambient air quality monitoring. Suzanne has been involved in the assessment of nuisance odours and construction dust. She has extensive modelling experience for both road and industrial sources and is familiar with preparing stand-alone air quality reports or chapters for inclusion within Environment Statements. Suzanne has worked with a variety of clients to provide expert air quality services and advice, including local authorities, planners, developers and process operators. She is responsible for the allocation of jobs to Consultants and Managers within the Company. She is also a Chartered Scientist.

## Employment Record:

<b>2015 – Current</b>	<b>Principal Consultant</b> <i>Air Quality Consultants Ltd.</i>
<b>2011 – 2015</b>	<b>Senior Consultant</b> <i>Air Quality Consultants Ltd.</i>
<b>2010 – 2011</b>	<b>Air Quality Scientist</b> <i>Peter Brett Associates LLP</i>
<b>2009 – 2010</b>	<b>Assistant Air Quality Scientist</b> <i>Peter Brett Associates LLP</i>
<b>2007 – 2009</b>	<b>Graduate Air Quality Scientist</b> <i>Peter Brett Associates LLP</i>

## Residential and Commercial Schemes

### **Mixed Use Development, Glasgow (2016)**

Responsible for the completion of an air quality assessment for a proposed development including residential and commercial use in the city centre of Glasgow. The assessment included consideration of both impacts from traffic and the on-site proposed centralised energy plant. The project also included local monitoring using diffusion tubes.

### **New Junction, Temple Circus, Bristol (2016)**

Responsible for the completion of an air quality assessment for proposed new junction at Temple Circus, in Bristol.

### **Residential Development, Northampton (2015)**

Responsible for the completion of the air quality assessment for proposed residential development in the centre of Northampton, located within one of Northampton Council's Air Quality Management Areas.

### **Large Residential-led Development, Ealing (2015)**

Responsible for completion of the air quality chapter of the Environmental Statement of a large residential-led, mixed-use development at Southall Gaworks, in the London Borough of Ealing. The chapter included assessment of a large on-site centralised energy plant, as well as emissions from road traffic and the nearby West Coast Mainline railway line.

### **Mixed Use Development, Hackney (2015)**

Responsible for the completion of an air quality assessment for a proposed mixed use development including commercial and residential uses, in the London Borough of Hackney. The assessment included consideration of both impacts from traffic and the on-site proposed centralised energy plant.

### **Mixed Use Development, Glasgow (2015)**

Responsible for the completion of an air quality assessment for a proposed development including residential and commercial use in the city centre of Glasgow. The assessment included consideration of both impacts from traffic and the on-site proposed centralised energy plant.

### **Replacement Housing at Regents Park Estate, Camden (2015)**

Responsible for the completion of an air quality assessment for the proposed residential re-development of nine sites in the Regents Park Estate in Camden. This included assessment of impact of existing traffic sources on new residents of each site, construction dust impact assessments, air quality neutral assessments and at some sites, consideration of impacts from on-site centralised energy plant.

### **Residential Development and De-trunking of A-Road, Lincolnshire Lakes (2014)**

Responsible for the completion of the air quality chapter of the Environmental Statement for a large residential development to the west of Scunthorpe, in north Lincolnshire.

### **Residential Development and Construction of New Link Road, Arlesey, Bedfordshire (2014)**

Responsible for the completion of the air quality chapter of the Environmental Statement for a large residential development in Arlesey, in Central Bedfordshire.

### **Mixed Use Development, Birmingham (2014)**

Responsible for the completion of an air quality assessment for a proposed development including residential and commercial use in the city centre of Birmingham.

### **Mixed Use Development, Bath (2014)**

Responsible for the completion of an air quality assessment for a proposed development including residential and employment use. in Bath, adjacent to the Bath and North East Somerset AQMA.

### **Residential-led Development, Saltash (2014)**

Responsible for the completion of the air quality chapter of the Environmental Statement for a large residential development in Saltash, Cornwall.

### **Mixed Use Development, Hackney (2014)**

Responsible for the completion of an air quality assessment for a proposed mixed use development including commercial and residential uses, in the London Borough of Hackney. The assessment included consideration of both impacts from traffic and the on-site proposed centralised energy plant.

### **Four Residential Developments, Sheffield (2014)**

Responsible for the completion of an air quality assessment for the proposed residential re-development of four sites in Sheffield.

**Three Residential Developments, Southwark (2014)**

Responsible for the completion of three air quality assessments for the proposed development of three residential sites in Southwark.

**Residential Development, Camden (2013)**

Responsible for the completion of an air quality assessment for a proposed development in the Camden.

**Mixed Use Development, Bradford On Avon (2013)**

Responsible for the completion of an air quality assessment for a proposed residential development including employment in the Bradford on Avon, in Wiltshire. The assessment work also included setting up a three-month diffusion tube monitoring programme within the town.

**Residential Development, Shepperton (2013)**

Responsible for the completion of an air quality assessment for a proposed residential development and Environment Agency workshop in the Shepperton, Spelthorne.

**Proposed Car Park Extension, Hadleigh (2012)**

Responsible for the completion of an air quality assessment for a proposed car park extension for a supermarket in Hadleigh, Babergh.

**Residential Development, Doha, Qatar (2012)**

Responsible for the completion of an air quality assessment for a proposed residential development to the south of Doha, in Qatar. Modelling required the use of the AERMOD dispersion model.

**Mixed Use Development, Stoneleigh, Warwickshire (2012)**

Responsible for the completion of an air quality assessment for proposed development at Stoneleigh Park in Warwickshire.

**Food Retail Store, Salisbury (2012)**

Responsible for completion of air quality assessment for a proposed supermarket in Petersfinger, Salisbury.

**Residential Development, Kingsteignton (2012)**

Responsible for the completion of an air quality assessment for a proposed residential development in the Kingsteignton, Teignbridge.

**Retail Development, Newcastle (2012)**

Responsible for the completion of an air quality assessment for a proposed retail development in Byker, Newcastle.

**Urban Re-generation, Keynsham (2012)**

Responsible for the completion of an air quality assessment for the proposed urban regeneration in Keynsham town centre, which included the implementation of a new one-way system within the town.

**Residential Development, Stafford (2012)**

Responsible for the completion of an air quality assessment for a proposed residential development in the Creswell, Stafford.

**Residential Development, Truro (2012)**

Responsible for the completion of an air quality assessment for a proposed residential development in the Threemilestone, Truro. The assessment included assessment of emission from a Park and Ride adjacent to the Application Site

**Mixed-Use Development, Hammersmith (2011)**

Responsible for the completion of the air quality chapter of the Environmental Statement of a large mixed use development in Hammersmith. The assessment considered the impacts of both traffic and an proposed energy centre.

**Residential Development, Bristol City Centre (2011)**

Responsible for the completion of two air quality assessments for a proposed residential development in the city centre of Bristol.

**Residential Development, Gloucester (2011)**

Responsible for the completion of an air quality assessment for a proposed residential development in Gloucester's Air Quality Management Area.

**Retail Development, Keighley (2011)**

Responsible for the completion of an air quality assessment for a proposed retail development in Keighley, West Yorkshire.

**Residential Development, Havant (2011)**

Responsible for the completion of an air quality assessment for a proposed residential development in Havant.

**Mixed-Use Development, Hackney (2011)**

Responsible for the completion of an air quality assessment for a proposed mixed use development in the London Borough of Hackney.

**Retirement Home, Truro (2011)**

Completed an air quality assessment for a proposed retirement home in Truro.

**Residential Development, Brackley (2011)**

Supervised the completion of an air quality assessment for a proposed development of several hundred houses as part of an Environment Statement, in Brackley,

**Residential Development, Topsham (2011)**

Supervised the completion of an air quality assessment for a proposed development of several hundred houses as part of an Environment Statement, in Topsham, near Exeter.

**Residential Development, Weddington (2011)**

Supervised the completion of an air quality assessment for a proposed residential development, in Weddington, near Nuneaton.

**Residential Development, Leicester Forest East (2011)**

Supervised the completion of an air quality assessment for a proposed residential development, in Leicester Forest East.

**Mixed-Use Development, Lewisham (2011)**

Responsible for the completion of an air quality assessment for a proposed retail and residential development as part of an Environment Statement, in the London Borough of Lewisham. The assessment included modeling emissions from road and energy centre sources.

**Mixed-Use Development, Slough (2011)**

Completed an assessment of air quality impacts associated with road traffic at a proposed mixed use development in Slough, requiring an Environment Statement. The assessment utilised the ADMS-Roads dispersion model.

**Mixed-Use Development, Crawley (2010)**

Completed an assessment of air quality impacts associated with road traffic and proposed energy centre options at a proposed mixed use development near Crawley, requiring an Environment Statement. The assessment utilised the ADMS-Roads and ADMS-4 dispersion models.

**Mixed-Use Development, Whitfield (2010)**

Completed an assessment of air quality impacts associated with road traffic at a proposed residential development of several thousand houses in Whitfield, near Dover. The assessment utilised the ADMS-Roads dispersion model and required assessment of impacts of the development on human health and sensitive ecological sites.

**Food Retail Store, Bath (2010)**

Completed detailed dispersion modelling assessment to identify the impacts on air quality of a proposed food-retail development in Bath.

**Residential Development, Lambeth (2010)**

Responsible for the completion of an air quality assessment for a proposed residential development in the London Borough of Lambeth.

**Residential Development, Newham (2010)**

Responsible for the completion of an air quality assessment for a proposed residential apartment building in the London Borough of Newham.

**Retirement Village, St. Saviors, Jersey (2010)**

Completed an air quality assessment for a proposed retirement development in St. Saviors, on Jersey. This required discussion with the Air Quality officer for the States of Jersey for post-construction air quality monitoring.

**Hotel Development, Reading (2010)**

Responsible for the completion of an air quality assessment for a proposed new hotel in Reading.

**Mixed Use development, Jersey (2010)**

Completed an air quality assessment for a proposed mixed use development in St Helier, on Jersey.

**Residential Re-generation Project, Hackney (2010)**

Responsible for the completion of an air quality assessment for a residential re-generation in the London Borough of Hackney. The assessment included modeling emissions from road and energy centre sources. Work for this development also included assessment of wind environment.

**Residential Development, Tower Hamlets (2010)**

Responsible for the completion of an air quality assessment for a proposed residential apartment building in the London Borough of Tower Hamlets.

**Mixed Use Development and associated Infrastructure, Bristol (2009)**

Completed an assessment of air quality impacts associated with road traffic at a proposed residential development of 10,000 houses in Bristol. The assessment utilised the ADMS-Roads dispersion model, and required setting up and managing a nitrogen dioxide diffusion tube monitoring programme over a 12 month period.

**Residential Re-generation Project, Croydon (2009)**

Responsible for the completion of an air quality assessment for a residential re-generation in the London Borough of Croydon. The assessment included modeling emissions from road and energy centre sources. Work for this development also included assessment of wind environment.

**Residential Development, Cullompton (2009)**

Responsible for the completion of an air quality assessment for a proposed small residential development, in Cullompton, mid-Devon.

**Residential Project, Hackney (2009)**

Responsible for the completion of an air quality assessment for a proposed residential development in the London Borough of Hackney.

**Food Retail Store, Bodmin (2009)**

Completed detailed dispersion modelling assessment to identify the impacts on air quality of a proposed food-retail development in Bodmin, Caradon.

**Mixed Use Development and associated Infrastructure, Peterborough (2008)**

Completed an assessment of air quality impacts associated with road traffic and proposed CHP plant for a large mixed-use commercial and residential development near Peterborough. The assessment included consideration of the potential impacts on human health and sensitive ecological sites. The assessment utilised ADMS-Roads and ADMS-4 dispersion models, and included setting up nitrogen dioxide diffusion tube monitoring and a continuous NO<sub>x</sub> chemoluminescent analyser.

**Residential Development, Hillingdon (2008)**

Responsible for the completion of an air quality assessment for a proposed residential development in the London Borough of Hillingdon.

**Residential Development, Cullompton (2008)**

Responsible for the completion of an air quality assessment for a proposed residential development of several hundred houses, in Cullompton, mid-Devon.

**Food Retail Store, Kingsteignton (2008)**

Completed a dispersion modelling assessment to identify the impacts on air quality of a proposed food-retail development in Kingsteignton, East Devon.

**Mixed Use Development, London Borough of Newham (2008)**

Completed an assessment of air quality impacts associated with road traffic and proposed energy centre for a proposed mixed use development in the London Borough of Newham. The assessment utilised the ADMS-Roads and ADMS-4 dispersion models and required negotiation of planning conditions with the Environmental Health Officer at Newham. Work for this development also included assessment of wind environment using wind tunnel modeling.

**Residential Development, Willand (2007)**

Responsible for the completion of an air quality assessment for a proposed residential development adjacent to the M5 motorway in Willand, mid-Devon.



### **Residential Development, St. Werburghs (2007)**

Responsible for the completion of an air quality assessment for a proposed residential development, in St Werburghs.

### **Residential Development, Chinnor (2007)**

Responsible for the completion of an air quality assessment for a proposed residential development of several hundred houses, in Chinnor in Oxfordshire.

## Industrial and Energy Centre Schemes

### **Impact assessment for CHP and boiler plant, Romford, Havering (2014)**

Undertook dispersion modelling, using ADMS 5, of emissions from a proposed new CHP and boiler plant in Romford, in the London Borough of Havering.

### **Energy From Waste Plant, Eastleigh (2013)**

Responsible for the completion of an air quality chapter for the Environmental Statement for a proposed EfW plant, in Eastleigh. The assessment considered potential air quality impacts from traffic and stack emissions at the EfW, on human and ecological health, as well as potential odour impacts from the process.

### **Energy Recovery Facility, Leeds (2013)**

Responsible for the completion of an air quality chapter for the Environmental Statement for a proposed energy recovery facility (ERF), including pyrolysis and anaerobic digestion, in Leeds. The assessment considered potential air quality impacts from traffic and stack emissions at the ERF, as well as potential odour impacts from the process.

### **Hydraulic Fracturing and Testing Site, Becconsall, West Lancashire (2012)**

Contributed to the air quality chapter for the Environmental Statement for hydraulic fracturing and testing at a drill site near Becconsall, in West Lancashire.

### **Energy Recovery Facility, Castleford (2012)**

Responsible for the completion of an air quality chapter for the Environmental Statement for a proposed energy recovery facility, including pyrolysis and anaerobic digestion, in Castleford, in Wakefield Borough. The assessment considered impacts on human and ecological health, relating to traffic and stack emissions at the ERF.

### **Impact assessment for boiler plant room, Southwark (2012)**

Undertook dispersion modelling, using ADMS 4, of emissions from a proposed new boiler plant room serving a housing estate in the London Borough of Southwark.

### **Impact assessment for four biomass boilers, Stockport (2011)**

Undertook dispersion modelling, using ADMS 4, of emissions from four biomass boilers on existing residential tower blocks in Stockport.

### **Impact assessment for In-vessel Composting Facility, Wisley (2009)**

Undertook qualitative construction dust assessment and quantitative (dispersion modelling using ADMS-4 of odour, ammonia and bioaerosols) assessment for a fully enclosed In-vessel composting facility in Wisley.

## Local Air Quality Management

### **North Hertfordshire District Council, Detailed Assessment (2014)**

Undertook modelling and summary report for work towards a Detailed Assessment of nitrogen dioxide concentrations in Hitchin.

### **Highland Council, Detailed Assessment (2013)**

Completed Detailed Assessment of nitrogen dioxide concentrations in Inverness city centre.

### **Fenland District Council, Detailed Assessment (2012)**

Completed Detailed Assessment of sulphur dioxide and particulate matter from the Princes food factory in Wisbech.

**Mendip District Council, Modelling for Detailed Assessment (2012)**

Carried out modeling as part of work towards the Council's Detailed Assessment of nitrogen dioxide from road traffic emissions along The Butts, in Frome.

**Hounslow 2012 Updating and Screening Assessment (2012)**

Completed the 2012 USA for the London Borough of Hounslow.

**Bromsgrove District Council, Further Assessments in Hagley and Bromsgrove (2012)**

Completed Further Assessment for nitrogen dioxide from road traffic emissions along main roads in Hagley and Bromsgrove (Worcester Road and Redditch Road).

**Aylesbury Vale District Council Detailed Assessment (2011)**

Completed a Detailed Assessment of nitrogen dioxide from road traffic emissions along main high street of the Winslow.

**St Helens Metropolitan Council Detailed Assessment (2011)**

Completed a Detailed Assessment of nitrogen dioxide from road traffic emissions for six areas of the St Helens metropolitan area.

**West Berkshire Borough Council Public Consultation for Action Plan (2011)**

Involved in development of a workshop for public consultation for developing West Berkshire's air quality action plan.

**Mid Devon District Council Detailed Assessment (2009)**

Completed a Detailed Assessment for nitrogen dioxide from road traffic emissions and an adjacent textiles factory for Leat Street, in Tiverton, Mid-Devon.

**Reading Borough Council Detailed Assessment (2007)**

Completed a Detailed Assessment of nitrogen dioxide and PM<sub>10</sub> from road traffic emissions for three areas of Reading town.

## Ambient Air Quality

**Data Processing and Ratification (2011 to Current)**

Responsible for the management of data processing and ratification of automatic monitoring data for a range of pollutants from a number of sites to determine compliance with the Air Quality Objectives. Sites include locations in London, Manchester, Lancaster, Wyre Forest, Cotswolds, Bromsgrove, Kingston Upon Hull, Waverley and Nottingham.

**Nitrogen dioxide diffusion tube monitoring, Glasgow (2015)**

Set up and managed a nitrogen dioxide monitoring programme at a mixed use development site in the city centre of Glasgow.

**Nitrogen dioxide diffusion tube monitoring, Hertford (2014)**

Set up and managed a nitrogen dioxide monitoring programme at a residential development site in Hertford.

**Nitrogen dioxide diffusion tube monitoring, Rushcliffe (2014)**

Set up and managed a nitrogen dioxide monitoring programme at residential care home, in Rushcliffe borough.

**Particulate matter construction monitoring, Ebbsfleet (2011)**

Set up and managed a PM<sub>10</sub> monitoring at a construction site in Ebbsfleet. The monitoring involved the implementation of an alert system to warn the site manager when PM<sub>10</sub> levels exceeded a certain threshold, requiring action to reduce the potential for dust annoyance at nearby sensitive receptors.

**Nitrogen dioxide diffusion tube monitoring, Worcester (2011)**

Set up and managed a NO<sub>2</sub> monitoring programme at a large development site to the south of Worcester.

**Nitrogen dioxide diffusion tube monitoring, Puritan, Somerset (2011)**

Set up a NO<sub>2</sub> monitoring programme at a commercial development site near Puritan, in Somerset.

**Nitrogen dioxide diffusion tube monitoring, Northampton (2009-2010)**

Set up and managed a nitrogen dioxide monitoring programme at a mixed use development site in Northampton, over a 12 month period.

**Nitrogen dioxide diffusion tube monitoring, Stafford (2009-2010)**

Set up and managed a nitrogen dioxide monitoring programme at a large development site in Stafford, over a 12 month period.

**Nitrogen dioxide diffusion tube monitoring, Crediton (2010)**

Set up and managed a nitrogen dioxide monitoring in Crediton, over a 3 month period.

**Nitrogen dioxide diffusion tube monitoring, Alconbury (2010-2011)**

Set up and managed a nitrogen dioxide monitoring programme at a large development site in Alconbury, over a 12 month period.

**Nitrogen dioxide diffusion tube monitoring, Sheffield (2008-2009, 2011)**

Set up and managed several nitrogen dioxide monitoring programmes near Tinsley, in Sheffield.

**Nitrogen dioxide diffusion tube monitoring, South Northamptonshire (2008-2009)**

Set up and managed a nitrogen dioxide monitoring programme at a large mixed use development site in South Northamptonshire, over a 12 month period.

## Dust and Odour

**Odour Assessment for Residential Development, Sandy, Central Bedfordshire (2015)**

Undertook modelling at a proposed residential development near to a sewage treatment works in Sandy, Central Bedfordshire, to determine the potential constraints, relating to odour, at the site.

**Odour Assessment of Poultry Processing Plant, Eastwood (2014)**

Carried out odour assessment for a proposed residential development site adjacent to poultry food processing plant in Eastwood. This was a desk-based study using the then recently released odour guidance published by the Institute for Air Quality Management.

**Odour Assessment for Residential Development, Wells (2013)**

Undertook modelling and desk-top odour assessment at a proposed residential development to the north of a sewage treatment works, to the west of Wells, to determine the potential constraints, relating to odour, at the site. Modelling required the use of the AERMOD dispersion model.

**Waste Recycling and Transfer Station, Theale, West Berkshire (2013)**

Responsible for preparation of air quality chapter for the Environmental Statement for a waste recycling and transfer station in Theale, West Berkshire. The assessment considered the impact of dust and odour arising from the operations at the waste transfer station on nearby residential receptors.

**Odour Assessment for Residential Development adjacent to Vehicle Spraying Yard, Kingston (2013)**

Undertook desk-top odour assessment at a proposed residential development adjacent to vehicle spraying yard, in Kingston on Thames, to determine the potential odour constraints, at the site.

**Odour Assessment, Sugar Factory, Bury St. Edmunds (2013)**

Undertook modelling and desk-top odour assessment at a proposed residential development to the east of the British Sugar factory in Bury St. Edmunds to determine the potential odour constraints at the site.

**Dust Monitoring, Isle of Wight (2012)**

Set up of dust monitoring programmes during construction of two housing developments.

**Hazardous Waste Transfer Station, Ewelme, South Oxfordshire (2012)**

Responsible for preparation of air quality chapter for the Environmental Statement for the permanent retention of a hazardous waste transfer station in Ewelme. The assessment considered the impact of dust and odour arising from the operations at the waste transfer station on nearby residential receptors.

**ROMP, Beacon Hill Landfill, Corfe Mullen, (2012)**

Responsible for preparation of air quality chapter for the Environmental Statement for ROMP of an existing landfill site at the former Beacon Hill brickworks. The assessment considered the impact of dust and odour arising from the operations at landfill site on nearby residential and ecological receptors.

**Odour Assessment of Chicken Slaughtering Facility, Brackley (2011)**

Carried out odour assessment for a proposed residential development site adjacent to a chicken slaughtering facility in Brackley. This required liaison with EA to determine the history of odour complaints and analysis of recent odour modelling undertaken for the facility.



### **Odour Assessment of Pet Food Manufacturers, Chorley (2010)**

Carried out odour assessment for a proposed residential development site adjacent to pet food manufacturers in Chorley. This required liaison with the Environment Agency and local authority to determine the history of odour complaints, undertaking a subjective odour assessment and analysis of recent odour modelling undertaken for the pet food manufacturers.

### **Odour Assessment of Sewage Treatment Works, Stratford-upon-Avon (2010)**

Responsible for conducting a subjective odour assessment at a proposed residential development site adjacent to a sewage treatment works in Stratford-upon-Avon.

### **Odour Assessment of Sewage Treatment Works, Salisbury (2010)**

Responsible for conducting a subjective odour assessment at a proposed residential development site adjacent to a sewage treatment works in Salisbury.

### **Odour Assessment for In-vessel Composting Facility, Wisley (2009)**

Undertook odour modelling and assessment for a fully enclosed In-vessel composting facility in Wisley.

## **BREEAM (Indoor Air)**

### **Lambeth BREEAM Indoor Air Quality Plan (2014)**

Undertook work for BREEAM credit within the Health and Wellbeing section of the BREEAM 2011 scheme document on Indoor Air Quality Plan for a mixed use development.

## **Miscellaneous**

### **Proposed New Road, Doha, Qatar (2012)**

Responsible for the completion of an air quality assessment for a proposed new road in Doha, Qatar. Modelling required the use of the AERMOD dispersion model.

### **Cost-benefit analysis for Low Emission Zone, Reading (2010)**

Involved in cost-benefit analysis of air quality improvements associated with a proposed Low Emission Zone for Reading town.

### **MSc Dissertation (2005)**

Analysis of the dispersion of high (temporal) resolution carbon dioxide (CO<sub>2</sub>) data in and above urban street canyons, using wavelet analysis to examine turbulent exchange processes, for application to air quality issues at various scales. Submitted to the University of Birmingham under the supervision of Dr. Jennifer Salmond.