

Who are MOTE and Emission Impossible Ltd?

Paul Baynham from MOTE and Louise Wickham from Emission Impossible Ltd were appointed after an open tender process.

Mote is an Auckland based firm specialising in ambient air quality monitoring throughout New Zealand and overseas.

Emission Impossible Ltd is a consultancy specialising in air quality and greenhouse gas emissions, and sustainable transport management.

Who are the independent specialists?

Mr Paul Baynham

Paul holds an MSc(tech) in atmospheric physics from Waikato University. He began his career working for the National Center for Atmospheric Research in Boulder Colorado. He later returned to New Zealand and worked for local government for more than 15 years before being employed as a Senior Air Quality Specialist at Mote (previously AirQuality Limited) - a role he has held for more than 4 years.

Paul has effectively tackled a range of poor air quality problems in a number of airsheds involving diverse seasonal contributions from the home heating, transport and industrial sectors. Paul specialises in particulate monitoring including PM₁₀ and PM_{2.5} using a range of traditional, beta-attenuation and optical monitoring techniques but is also an acknowledged expert in the monitoring of various gases including sulphur dioxide, carbon monoxide and volatile organic compounds (in particular, formaldehyde).

Paul is a past president of the New Zealand branch of the Clean Air Society of Australia and New Zealand. He has designed, written and delivered a range of training programmes for air quality monitoring.

Ms Louise Wickham

Louise is a Director and Senior Air Quality Specialist at Emission Impossible Ltd, an air quality consultancy in Mt Eden, Auckland. Louise has degrees in chemical and materials engineering and environmental law, and 24 years' experience in air quality working for both private and public sectors in New Zealand, Australia and the United Kingdom.

In 2012, Louise completed the Making Good Decisions course (grade = excellent) and has since acted as an independent Commissioner for Auckland Council and Hawke's Bay Regional Council. Recently Louise, with Emission Impossible Ltd colleagues Jayne Metcalfe and Surekha Sridhar, updated three air quality good practice guides for the Ministry for the Environment including the good practice guide for assessing and managing dust.

Who are you?

Paul Baynham (MOTE) and Louise Wickham (Emission Impossible Ltd).

Have you done monitoring before?

Yes. Both Paul and Louise each have more than 20 years' experience in air quality monitoring and management.

Have you worked for quarries before?

Yes. Full disclosure of our previous experience with quarries, and Yaldhurst in particular, was provided during the tendering process, and also discussed at our meeting with the public in Yaldhurst.

In summary, Paul currently monitors emissions for a range of clients around New Zealand and Australia. These clients include regional councils and unitary authorities, research organisations, large engineering and consultancy firms, and large industries including a quarry operator and a mine (neither are based in Canterbury). As an ex-regulator, Paul also has previous experience both monitoring emissions from quarries and taking enforcement action against quarries for excessive emissions.

Louise has similarly, previously worked as an independent consultant for quarries (assessing emissions to air) as well as acting as an independent commissioner on a quarry under the RMA.

What is your background?

Paul is an atmospheric physicist and Louise is an air pollution engineer with a masters' degree in environmental law.