Air quality monitoring – stack emission testing

Trinity Consultants Australia offers comprehensive air quality monitoring services, including stack emission testing, modelling and assessments.

Our environmental scientists and technicians have been providing innovative, cost-effective solutions to achieve air quality compliance and best practice management for more than 25 years. We understand industrial processes and atmospheric science, but we also speak the language of regulators and policy stakeholders.

With a highly qualified, NATA-certified and trusted team, and a range of specialist in-house equipment, Trinity has all the tools to meet your emissions testing needs – however complex or diverse they may be.

What we do

- We conduct source emission testing for particulates, metals, halides, VOCs, and dioxins and furans from stacks, ducts and baghouses.
- We provide cost-effective emissions testing and assessment solutions for your business.
- Our team have decades of experience providing practical advice and solutions for compliance emission testing or stack testing.
- Our stack testing facility is NATA-accredited in accordance with ISO/IEC 17025. We sample using a number of Australian standard, US EPA and European stack emission test methods.
- We deliver high quality services and accurate results in a timely manner.

Our specialist equipment

Trinity Consultants Australia has a portable Fourier Transform Infrared (FTIR) analyser capable of monitoring multiple gases simultaneously, even in hot, wet, aggressive gas streams. This means it is ideal for emissions monitoring in the power sector, energy from waste, incineration plants, and in industries such as cement and aluminium.

Our FTIR analyser can simultaneously measure multiple analytes in complex gas matrices, detecting virtually all gas-phase species (both organic and inorganic, except diatomic elements N_2, O_2 etc. and noble gases He, Ne, etc.). Several typical configurations exist for monitoring emissions including parameters such as CO, NO, H_2O, SO_2, HCl, NH_3, NO_2, N_2O, CO_2, HF, CH_4, CHOH, and volatile organic compounds. The FTIR is also capable of measuring methane slip or combustion slip from compressor, reciprocating and piston engines.

What we test for

- Particulate matter (PM_{10}, TSP)
- Nitrogen oxides (NO_x)
- Carbon monoxide (CO)
- Carbon dioxide (CO_2)
- Acid gases
- Formaldehyde
- Hydrogen sulphide
- Isocyanates
- Metals
- Odours
- Dioxins and furans
- Polynuclear aromatic hydrocarbons
- Semi-volatile organic compounds
- Sulphur oxides (SO_x)
- Volatile organic compounds (VOCs)
- Other compounds and substances as required

Industries we service

- Petroleum, oil and gas
- Bitumen
- Agriculture, forestry, sawmills
- Refineries and metal production
- Mining
- Chemical industries
- Manufacturing industries
- Spray painting
- Transport
- Utilities

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