



A U S T R A L I A

Trinity Consultants Australia offers comprehensive air quality modelling to predict concentrations of air pollutants from sources including industrial plants, construction sites and vehicle traffic.

Our team uses a comprehensive suite of software programs and models to simulate the emission and dispersion of pollutants based on a variety of factors such as source characteristics, meteorology and terrain.

We produce diverse outputs and scenarios for all kinds of requirements, from the simplest of jobs through to large and complex research projects.

Our capabilities

Emission inventories for air, land and water releases

- Sophisticated National Pollutant Inventory reporting, customised to site
- Greenhouse gas inventories
- Landfill fugitive air emissions
- Speciation of volatile organic compounds and particulate composition
- Organic storage tank emissions
- Sewage treatment plant air and water emissions

Meteorological modelling

- Generation of site-specific weather data, both using prognostic and observational weather station data
- Assimilation of modelling data and observational data into format for dispersion modelling
- Provision of representative weather data

Air dispersion modelling

- Pollution forecasting capabilities in conjunction with Trinity BREEZE software development division
- Simple terrain applications within 2km
- Complex modelling of fugitive sources, large domain, coastal or complex terrain
- Complex building topography
- Road and rail modelling
- Photochemical or regional modelling
- Source identification by chemical mass balance and receptor modelling
- Plume rise analysis for assessing airport space impacts





Software and modelling

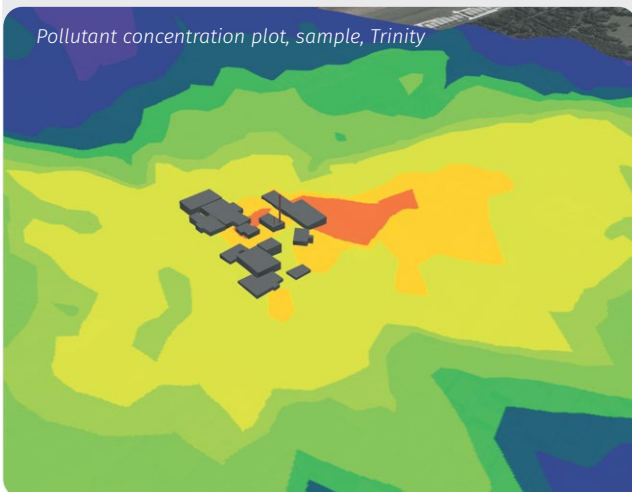
We incorporate a range of software into our analysis and forecasting processes to meet diverse client needs. Our programs and models used include CALPUFF, AERMOD, GRAL, TAPM (The Air Pollution Model - the Australian meteorological model), WRF (Weather Research and Forecasting model), SLAB and FullCAM.

We also work closely with Trinity's BREEZE software development division to provide unique pollution forecasting capabilities.

Accreditations, standards and permits

- Multiple staff who hold Certified Air Quality Professional (CAQP) certifications
- JAS/ANZ 3rd Party Certified by SCI Qual International (certification number 4277) for our Quality Management System, which is in conformance with ISO 9001:2015
- Level 3 Prequalification status with Queensland Government, PQC Registration Certificate Number 4663A

Pollutant concentration plot, sample, Trinity



Our clients

- Gladstone Ports Corporation
- James Hardie
- Arup
- Epic Environmental
- ARIA Property Group
- CSR Building Products
- Origin Energy