

Asbestos ID Services

Asbestos is a carcinogenic substance. Health risks arise from the inhalation of asbestos fibres into the lungs. Exposure to asbestos may cause serious health effects, such as asbestosis, mesothelioma, lung cancer and pleural disease that can take up to fifty years to develop.

As such, the dependable and accurate analysis of suspect building and industrial materials, which may contain asbestos, is essential to support workplace Occupational Health and Safety initiatives and avoid potential liability with respect to an employer's duty of care.



Examples of Asbestos Building and Industrial Materials

- Thermal insulation lagging eg. pipes, boilers, furnaces, ducts in buildings, plant, ships and furnaces;
- Construction materials - eg. asbestos-cement (AC) sheeting for roofs/walls, putty, gaskets, vinyl floor coverings, roofing felt, roof shingles, wall claddings, gutter linings, damp-proofing;
- Fire retardant in high rise buildings, mostly between floors or fire-doors;
- Compressed asbestos in vehicle brake linings, clutch plates and gaskets;
- Acoustic insulation in false ceilings, especially in schools, hospitals and public areas;
- Heat resistant textiles eg. cloth, padding, blankets;
- Electrical switchboards, insulators and fittings;
- Paints, coatings, sealants and adhesives.

Services

SLR Heggies provides an independent and rapid assessment of potential asbestos materials using Polarised Light Microscopy and Dispersion Staining Techniques, under the guidance of AS 4964-2004 'Method for the Qualitative Identification of Asbestos in Bulk Samples'. SLR / Heggies is capable of positively identifying asbestos in bulk materials (i.e. fibrous cement sheeting and various building materials), asbestos in soil, and asbestos in settled dust.

Quality

SLR Heggies maintains in-house, NATA Accredited laboratories under ISO/IEC 17025 including NATA accreditation for asbestos identification. The utilisation of SLR / Heggies in-house laboratories not only provides expedited turn around time for sample analysis to meet strict client deadlines, but also allows for enhanced quality control and quality assurance under the company-wide AS/NZS ISO 9001:2000 endorsed quality system (Quality Assurance Services Licence No 3236).

ENVIRONMENTAL SERVICES

ACOUSTICAL DESIGN	<ul style="list-style-type: none"> • REF, EES, EIA, EIS Studies <ul style="list-style-type: none"> - Road, Rail, Aircraft, Industry, Mining • Building Acoustics, BCA compliance • Mechanical Services Noise / Vibration • Construction Noise and Vibration • Environmental Management Plans 	<ul style="list-style-type: none"> • Blast and Explosion Assessment / Control • Silencers, Attenuators, Enclosures, etc • Resilient Mounts, Vibration Isolation Mats, Tuned Mass Dampers • Community Liaison, Expert Testimony, Regulatory Authority Meetings
AIR QUALITY	<ul style="list-style-type: none"> • Outdoor & Indoor REF, EES, EIA, EIS Studies <ul style="list-style-type: none"> - Industries, Transportation and other sectors • Atmospheric Dispersion Modelling for All Airborne Pollutants and Odour • Monitoring All Major Air Pollutants / Odours 	<ul style="list-style-type: none"> • Design/Operation of ambient Air Quality Monitoring Networks • Indoor Air Quality, Natural Ventilation • AUSPLUME, TAPM, CALPUFF, ISC3, ADMS3 CALINE4, AERMOD, FLUENT (CFD)
WATER QUALITY	<ul style="list-style-type: none"> • Water Quality Monitoring 	<ul style="list-style-type: none"> • Ground Water Sampling
HAZARDOUS MATERIALS	<ul style="list-style-type: none"> • Asbestos: Identification, Monitoring, Fibre Counting, Management, Training 	<ul style="list-style-type: none"> • Contaminated Site Investigations & Surveys; Due Diligence Surveys
SITE CONTAMINATION	<ul style="list-style-type: none"> • Monitoring for Lead, PCBs, Silica, SMFs <ul style="list-style-type: none"> - All Major Contaminants 	<ul style="list-style-type: none"> • Remediation Action Plans, Remediation Management, Validation Surveys
METEOROLOGY and CLIMATE	<ul style="list-style-type: none"> • Monitoring for a Wide Range of Meteorological Parameters 	<ul style="list-style-type: none"> • Wind Climate Analysis, Extreme Climate Risk Assessments

ENGINEERING SCIENCE SERVICES

WIND ENGINEERING and CFD	<ul style="list-style-type: none"> • Wind Tunnel Testing and Expert Opinion • Full-Scale Testing of Buildings, Bridges 	<ul style="list-style-type: none"> • CFD Simulations Using FLUENT • Natural Ventilation, Indoor Air Quality
SOLAR – ESD ENERGY STUDIES	<ul style="list-style-type: none"> • Energy Efficiency, Energy Audits • ESD, Sustainability Studies • Shadows, Solar Ingress, Reflectivity • Natural Lighting / Lux Level Simulations 	<ul style="list-style-type: none"> • Energy Ratings – NatHERS, BERS, FirstRate, BASIX, AccuRate (Residential Buildings) • ABGR / GreenStar (Commercial Buildings) • BCA Section J Assessments
STRUCTURAL DYNAMICS and MECHANICAL DESIGN	<ul style="list-style-type: none"> • Experimental Modal Analysis • Dynamic Finite Element Analysis • Machine Vibration Surveys • Turbine Dynamics and Monitoring • Vibration Isolation Systems 	<ul style="list-style-type: none"> • Pipe / Pulsation Analysis (PULS) • Pipeline / Valve Acoustic Induced Vibration • Fatigue / Fracture / Stress Analysis • Mechanical Systems Design • ProEngineer, NASTRAN, FLUENT
ADVANCED SYSTEMS	<ul style="list-style-type: none"> • UAV and Aeronautical Studies • Safety MIL-STD 882 and Risk Engineering • Communications • AEO & AMO Certification Systems 	<ul style="list-style-type: none"> • GIS Management/Assessments • Blast Systems & Modelling • Harsh Environments – MIL-STD 810 • EMC Mil-Std 461

OTHER SERVICES

OHS and OCCUPATIONAL HYGIENE PROJECT and RISK MANAGEMENT	<ul style="list-style-type: none"> • (Certified) OHS Surveys, Audits • Technical Due Diligence Surveys • Ergonomic and Workplace Assessments • Project Management Services 	<ul style="list-style-type: none"> • OHS Management Systems and Training • RF Accumulation & Testing • Risk Studies to AS / NZS 4360 and SAFETY • Health and Toxicology Studies
LABORATORY and R&D SERVICES	<ul style="list-style-type: none"> • NATA-Accredited to ISO 17025 <ul style="list-style-type: none"> - Air Volume Sampling, Asbestos Fibre Counting, Asbestos Identification • Research and Development 	<ul style="list-style-type: none"> • Laboratory and Field Testing for Air and Water Quality, Acoustics, Vibration • Harsh Environment – MIL-STD 810, DEF(AUST) 5168, DEF(AUST) 5681
WEBSITE and MEDIA SERVICES	<ul style="list-style-type: none"> • Web-based Real-time Data Management and Monitoring Interfaces 	<ul style="list-style-type: none"> • Professional Videos for Training, Expert Testimony, Media Presentations