



STATS

Specialist Testing
and Technical Services



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COMPANY PROFILE

ABOUT US



OVERVIEW

STATS Asia Pacific provides customized and economical engineering solution to various Engineering and Environmental Problems.

We strongly believe in the use of advanced instrumentation and offering options for our clients in order to support their design and construction tasks. In today's world, traditional methods of verification can often be expensive and time consuming. Our team of highly experienced Engineers and Technicians uses a combination of "high end" testing equipment and technology to verify and validate basic engineering assumptions, thus reducing construction risks and design issues. In Singapore, the team of experts have over 10 years of experience in the field of testing, inspection, engineering and consultancy.

VISION, MISSION & VALUES

Our Mission

To provide consultancy, inspection, testing & training services in the areas of civil, geology, environmental and biological sciences.

Our Vision

To deliver the best value and partner for their testing, inspection and engineering needs for our clients.

To be the best technology provider in terms of testing, engineering, inspection and training provider for the construction, petrochemical, environmental and electronics industries.

To be the best employer and provide learning opportunities for all our staff.

Our Values

Integrity

We believe in upholding the highest level of ethical behavior and personal integrity in the conduct of our business.

Trust

We trust and empower our staff to maximize their learning potential and enable them to grow with our organization.

Strategic Alliances

We believe in fostering lasting partnerships with individuals and organizations that support the drive towards innovation, productivity, technological advancement and sustainability projects that lead us to a better place for generations to come.

OUR SERVICES

ENVIRONMENTAL

1. Indoor Air Quality Assessment
2. Green Label Testing
3. Industrial Hygiene Monitoring
4. Inventory of Hazardous Materials
5. Ambient Air Monitoring
6. Environmental Baseline Studies

GEO-ENVIRONMENTAL SERVICES

CHEMICAL & BIOLOGICAL SERVICES

1. Airborne Molecular Contamination in Cleanrooms
2. Failure Analysis of Materials / Nano- Materials

CIVIL & GEOTECHNICAL SERVICES

1. Concrete Evaluation & Repair
2. Mining Infrastructure
3. Project Management & Site Remediation
4. Quarry, Borrow Pits & Construction Materials
5. Road, Rail & Bridge Infrastructure
6. Residential & Commercial Development

STATS Asia Pacific employs the latest technologies and methodologies, giving you accurate and reliable results. Our staff are trained to the highest standards and have in-depth knowledge of their fields and your business needs. We provide innovative, high quality and consistent training and development solutions for every level of your organisation. With proper training and advanced knowledge, businesses and individuals are more likely to be motivated, thus, an increase in the overall productivity.

WHY US?





Indoor Air Quality Assessment

STATS provides independent monitoring and consultancy services offering a full range of professional solutions including the investigation and evaluation of Indoor Air Quality (IAQ), indoor air testing and monitoring, sample collection, laboratory analysis and air flow investigations.

Our indoor air quality assessment services are delivered by competent professionals who have more than 10 years of experience. We combine the latest high performance indoor air testing and analysis equipment, computer modelling and laboratory analysis techniques to help identify air quality and other environmental issues to improve the quality of internal workplace environments, and the health and well-being of building occupants.



Green Label Testing

The Singapore Green Labelling Scheme (SGLS) administered by Singapore Environmental Council (SEC) was launched in May 1992 to endorse industrial and consumer products that have less undesirable effects on our environment. Administered by the Singapore Environment Council (SEC), the SGLS is the region's most established ecolabelling scheme with over 3 000 unique products certified across 28 countries.

STATS is recognised by Singapore Environment Council (SEC) for Green Label Testing. STATS uses highly advanced instrumentation like VOC emission chambers built in accordance to ISO 16000 to verify the VOC emission levels in building products. The emissions will then be analysed by Gas Chromatography Mass Spectrophotometer / Automated thermal desorption unit (GCMS-ATD). Other instrumentations include ICP-MS and GCMS with Flame Ionisation Detector/ Nitrogen Phosphorus Detector. Our Chemists are well-trained and has over 10 years experience staff to test a wide variety of products according to SEC requirement standards.



Industrial Hygiene Testing

STATS provides detailed industrial hygiene testing and monitoring services with an emphasis in exposure assessment and risk characterization. Our monitoring services include the use of internationally approved standards like OSHA and NIOSH. All tests are carried out in our SAC Singlas accredited laboratories. The experience of our staff enables STATS to ensure that hazardous health exposures are correctly identified and solutions are delivered within management-driven time frames and budgets. STATS is a service provider offering hygiene monitoring services accredited by MOM.



Inventory of Hazardous Materials

Inventory of Hazardous Materials (IHM) is implemented in the Hong Kong International Convention for Safe and Environmentally Sound Recycling in 2009. IHM is based upon Lloyd's Register "Green Passport" inventory but with far more detailed application. It is to address the issues regarding ships disposal as it may contain hazardous substances such as asbestos, heavy metals, hydrocarbons, ozone-depleting substances and others.

IHM is a documentation of known or expected hazards in the ship that may be hazardous to the health or the environment during the lifespan of vessels from construction to the end of the useful life of the ship. By doing so, it minimizes risks, avoid potential liabilities and enhance safety of the crew members. Furthermore, prior to recycling, these documents help to identify hazardous substances to facilitate safer and environmentally sound plan for recycling or disposal of the ship.



Ambient Air Monitoring

Ambient air monitoring is an integral part of an effective air quality management system. It can be analysed using different analytical procedures. The appropriate protocol deployed depends on the client's requirements and budget. STATS is capable of developing a monitoring strategy that takes into consideration of the client's budget, reliability of systems, and ease of operation.

The locations for monitoring stations depend on the purpose of the monitoring. Most air quality monitoring networks are designed to support human health objectives, and monitoring stations are established in population centers. They may be near busy roads, in city centers, or at locations of particular concern (e.g., a school, hospital, particular emissions sources). Monitoring stations also may be established to determine background pollution levels, away from urban areas and emissions sources.



Environmental Baseline Studies

STATS provides EBS to help our clients perform due diligence and understand the potential issues and liabilities when developing or acquiring a new site. This involves an assessment of water, soil and air of the area. Inspection includes investigation of unusual odours, chemical or toxic gas emissions, drainage, noise, solid waste handling and others that may harm the biodiversity. The samples are then sent to our laboratories to analyse for any toxic chemicals that could affect the environmental quality and also the integral structure of the future buildings.

Additionally, we provide strategic, practical, cost effective and timely solutions to Geotechnical & Environmental issues in the form of cost savings to the client through combining the synergies and overlapping between these two disciplines. Using the analysis and results from our lab, our engineers are able to provide complete and effective solutions and advise for any of the environmental issues regarding the site.



Geo-Environmental Services

STATS Asia Pacific specializes in extracting high-quality soil, groundwater, and rock samples in a safe and efficient manner using direct push Geoprobe Drilling. Direct push probing uses static force and hydraulically powered percussion to 'push' tools and sensors into the ground. Sampling is faster and more cost-effective than conventional drilling and also more representative of in-situ conditions. Surface and subsurface disturbance is minimised and, unlike drilling, probing generates no cuttings requiring disposal. The rigs can switch from direct push tooling to hollow stem augers in a matter of minutes to provide unrivalled site investigation versatility. Wireless remote technology provides exceptional and safe manoeuvrability in even the most confined spaces.



Airborne Molecular Contamination in Cleanrooms

There has been an increasing demand for higher performance goods with precision engineering, quality of sub-components and silicon-based materials. However, the presence of semi-volatile organic compounds (SVOCs), known as airborne molecular contaminants (AMCs), can negatively affect the performance of these components. Challenging AMCs includes antioxidants, plasticizers (such as phthalates), amines and amides, siloxanes, flame retardants, and organophosphates. STATS uses advanced instrumentations to measure airborne molecular contamination such as:

- ATD/GC/MS
- GC/MS/NPD/FID
- Ion Chromatography
- ICP/MS



Failure Analysis of Materials / Nano-Materials

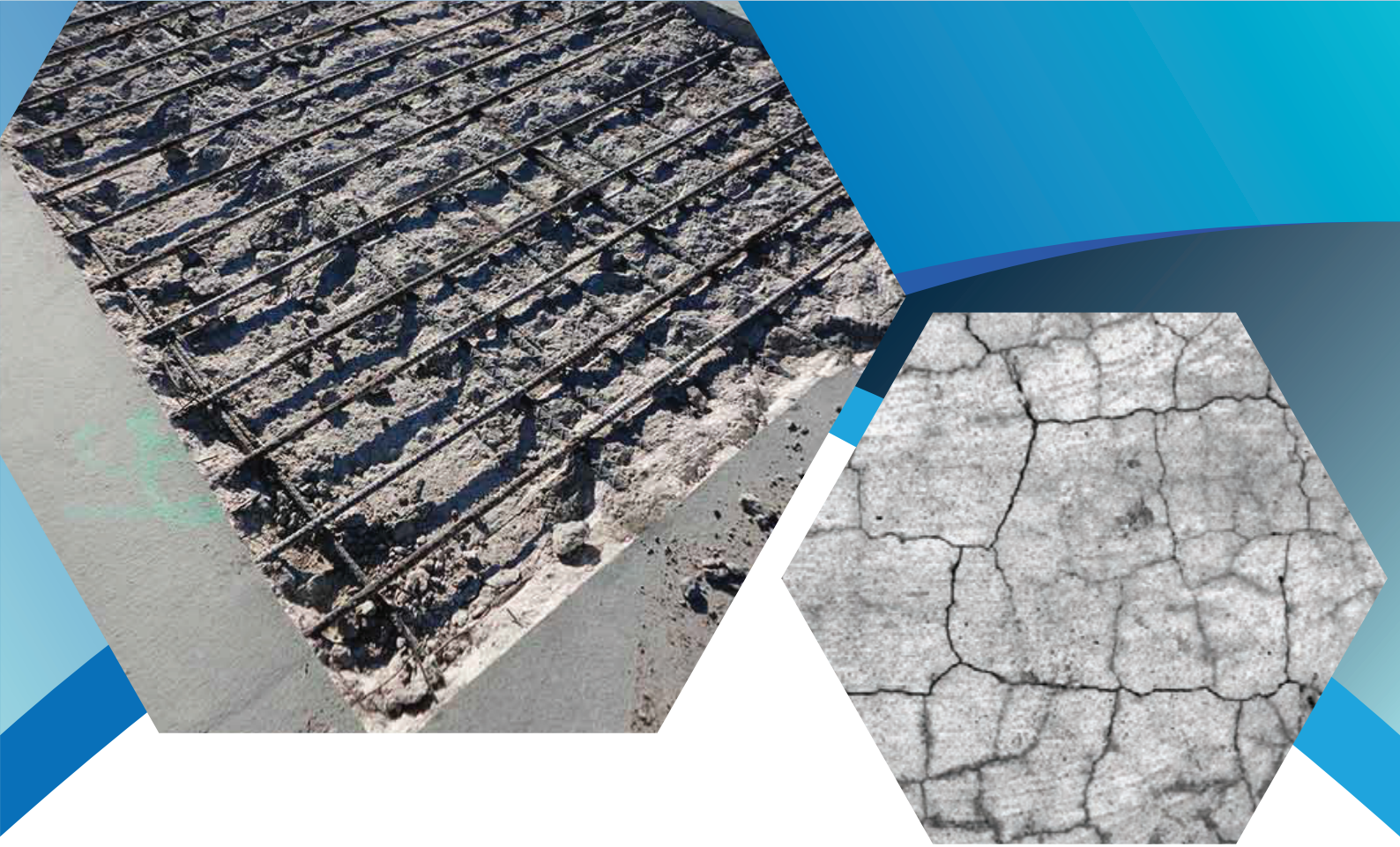
STATS work with research institutions and specialised scientific organisation to provide niche technical services on failure analysis of metals and non-metals for products. We customise solutions for diagnosis using advanced instrumentation and offering solutions that will assist to arrest the issue of future failures.

METALS

Our hypothesis of failure will include a complete analysis of your product, testing the total environment and condition of metal parts and sub-assemblies, including the micro-structure level.

NON-METALS

The rising demands on new materials causes an increasing need for sophisticated applications of materials including: plastics, composites, adhesives, coatings and paint. We deploy different techniques to identify base materials and contaminants, and analytical techniques to characterize sources of fractures and failures.



Concrete Evaluation & Repair

STATS is a multi-disciplinary specialist consultant and repair contractor which provide a unique range of services from investigation, to providing unique and innovative repair and strengthening solutions for the industry. Our primary customer base comprises of Developers, Facility Managers, Consultants and Contractors. We are managed by a team of professionals with sound academic qualifications, rich professional experience and extensive technical knowledge in design, construction and material properties. Throughout the years, we have continuously provide efficient concrete evaluation and repair solutions to our clients.



Mining Infrastructure

Proper mining infrastructure is extremely important for the safety of the workers. STATS combines geotechnical engineering and environmental solutions to improve the quality of the infrastructure and minimising hazardous substances that could have an adverse effect on employees.



Project Management & Site Remediation

With our extensive experience in Project Management and Earthworks Supervision, we have the capability to undertake Site Remediation works such as Site Earthworks Compaction, Field Compaction Testing and Geotechnical Certification work.

STATS provides Level 1, Level 2 & Level 3 Geotechnical Supervisory and Certification Work for Residential and small Commercial Earthworks Development.



Quarry, Borrow Pits & Construction Materials

As materials are depleting, companies are finding it difficult to locate the closest quarry, borrow pits and construction materials for the building of their projects. Furthermore, countries are implementing stricter regulations to minimise the damages of the surrounding environment. Engineers are facing a challenge to identify what type of materials will be suitable for their project. STATS understands the need to provide alternative solutions for the Client.



Road, Rail & Bridge Infrastructure

Pavement distress takes place as a result of increasing traffic loading conditions, variations in ambient temperature, moisture movement and variations in sub-grade preparation during the construction of the pavement matrix. These defects manifest as surface defects and deformation, cracking patterns and potholes. STATS provides various road, rail and bridge infrastructure services to ensure quality and safety of the users. STATS believes in providing a clear and concise investigation approach to enable suitable repair methodologies to be implemented.



Residential & Commercial Development

STATS services are specifically tailored to complement design assumptions and information provided by Consulting Engineers and Architects through incorporating specialist engineering expertise and knowledge of materials for the development of the site.