

Thiess Services Pty Ltd

Company Profile

Thiess Services was established as a subsidiary company of the contracting organisation Thiess Pty Ltd in the 1987. Originally known as Thiess Environmental Services, the organisation changed its name to Thiess Services in 2000 to better reflect the diversity and future focus of the company, as an infrastructure, energy, water and environmental services provider.

In just 26 years, Thiess' services business has carved out a reputation as a leading provider of environmental engineering services, asset and infrastructure, energy and communication solutions to industrial and commercial clients and government agencies.

Today, through our 'One Thiess' offer, we are well placed to bring a unique value proposition to the market and deliver innovative, value-driven solutions, from specialist contracts to whole-of-life projects with single point accountability.

Thiess Services operates as part of Thiess Pty Ltd is backed by parent company Leighton Holdings Limited (LHL). Thiess Pty Ltd is an international multi-disciplined corporation with operations throughout Australia, south Asia and the near-Pacific. Published consolidated financial statements for the Thiess Group as at 31 December 2012 show total share capital and reserves of A\$993 million and total assets of approximately A\$3,177 million. For the twelve months ended 31 December 2012, the Thiess Group recorded turnover of more than A\$6,133 million. Thiess Services operating revenue, associates and joint ventures for year ending 31 December 2012 was A\$8.59 million. The company has A\$1.95 billion of work in-hand for the same period.

Driven by the company's 4 values of [Trust, Passion, Excellence and Innovation](#), Thiess' vision is [Creating a brighter future, together](#). We achieve this by:

- Implementing innovation and smart solutions
- being future-focussed, long-term and sustainable
- Delivering excellence and continuous improvement
- Creating trusted partnerships with clients and employees

TRUST

DEPENDABLE • RELIABLE • CERTAIN

We deliver on what we promise. Qualities like integrity, honesty and care keep our people safe and enable relationships that go the distance. It's the essence of what sets us apart – the backbone of our business.

PASSION

ENERGY • ENTHUSIASM • DRIVE

A relentless commitment to be the best – going the extra mile to achieve results that exceed expectations. We safeguard our people, value diversity, enhance communities and transform environments. It's not just a job...it's in our blood.

INNOVATION

A SPARK • A QUEST • A PROBLEM SOLVED

A pioneering spirit that values ideas and seizes opportunities. A willingness to challenge and change, making the complex simple. It takes creativity, courage and collaboration to deliver cost-effective, smart solutions.

EXCELLENCE

DISCIPLINE • LEADERSHIP • PERFORMANCE

Simply, the uncompromising standard we hold ourselves accountable to every day. We deliver high quality projects through high quality service. It's what attracts and retains the best and converts projects into partnerships.

Thiess - Remediation Services

The growth of cities and regional centres is placing increasing social, economic and political pressure on governments and businesses to revitalise degraded and under-utilised land and waterways. We are Australia's leading and longest-serving remediation specialist, entrusted with some of the most technically complex remediation projects ever undertaken in Australasia.

Our internationally-acclaimed work includes remediation of hydrocarbon and chemical storage depots, industrial manufacturing sites, landfills and hazardous waste sites and former nuclear sites. Each project benefits from our ability to identify and capture efficiencies and innovations from previous projects and provide a complete turnkey solution from planning, approvals, and community engagement through to project delivery and site rehabilitation. Our clients include industry, land developers, local and state government and the Department of Defence, giving us a wide-ranging appreciation for the unique drivers of individual projects as well as the universal demands of leading remediation services.

As a leading provider of remediation services our success is derived from the expert advice and innovative approaches of our people. They are committed to exploring how engineering innovation and new technologies translate into asset management solutions that deliver greater efficiencies, lower costs and improved sustainable outcomes.

Flexible and scalable in our approach, we work towards future-proofing our clients' assets, delivering industry-leading, environmentally- responsible service solutions that achieve more with less, without compromising safety or quality.

Technologies & Capabilities

Total Service Delivery

We offer complete remediation project management and contract services for:

- Site characterisation sampling and assessment
- Development of remediation strategies and options
- Preparation of remedial action plans
- Co-ordination of specialist inputs from consultants and auditors
- Preparation of Environmental Impact Assessments
- Approvals and permitting
- Quality, Environment, Health and Safety Management Systems
- Execution of Remediation Works.

Project Delivery

Our comprehensive remediation service expertly manages complex planning and approvals processes to enable reliable project delivery. Clients can access a full range of services including the management of detailed project studies; specialist advice coordination; approvals, permit and licence conditions reviews; implementation of quality, environment, health and safety management systems; and execution of the remediation works. Our extensive knowledge bank of procedures, initiatives and innovations delivers solutions that are feasible and represent industry best-practice.

Key Services

Thiess Services has successfully undertaken major remediation projects at:

- Gasworks
- Hydrocarbon and chemical storage depots
- Defence facilities
- Nuclear test sites
- Hazardous waste dumps and landfills
- Metal manufacturing facilities
- Chemical manufacturing facilities; and
- Industrial manufacturing sites.

Thiess Services has undertaken numerous remediation projects using various biological, physico-chemical and thermal treatment technologies. Our proven track record in landfill design, engineering, construction, operation, closure and aftercare has also been successfully applied to contain and encapsulate hazardous waste.

Area of Expertise

Thiess Services has proven expertise in a range of remediation technologies, including:

- Ex-situ containment and encapsulation of contaminated soil, hazardous wastes and radiological contaminants in fully engineered cells to isolate contaminants from the environment. The Maralinga project in South Australia involved collection of nuclear blast apron debris and contaminated soil and dust over a large area and burial in a specially constructed dry encapsulation. The application of stringent Occupational Health and Hygiene measures was critical to the success of this project and included the design and construction of specially modified plant and equipment to prevent exposure to potentially contaminated dust during the works.



- Thermal Desorption to volatilise a broad range of organic contaminants from soil and solid wastes, such as petroleum hydrocarbons, PAHs, PCBs, pesticides and chlorinated organics.



- Bioremediation involving landfarming, composting and sophisticated biopiles to degrade organic contaminants such as petroleum hydrocarbons, certain PAHs, volatile organics and explosives with microorganisms.



- Solidification/Stabilisation with cement, pozzolans, lime and other proprietary agents to treat hazardous wastes and soils contaminated with heavy metals, inorganic chemicals, hydrocarbons and PAHs.



- In-situ containment involving installation of impermeable barriers, such as synthetic or soil-bentonite walls, down gradient of pollution sources to protect surface waters and groundwater and to recover hazardous leachates and contaminated groundwater.



Demonstration or project overview

World-leading Technology

We are Australia's only contractor with the expertise to implement the full suite of remediation technologies currently available worldwide. Our team has pioneered many of the technologies, work practices and controls that represent state-of-the-art remediation practice including the application of bioremediation, chemical immobilisation and the most advanced thermal technologies available today. We collaborate with a global network of remediation and technology providers to remain at the forefront of our industry. Some of our international projects are summarized below:

International Projects

International Project	Technology Used	Results
Maralinga Rehabilitation Project – radioactive site	The surface rehabilitation involved the collection and burial of nearly 400,000m ³ of contaminated soil from over 3,400,000m ² of arid ground, together with extensive vacuuming and sweeping of rock surfaces, and the exhumation of a number of burial pits.	Awards: <ul style="list-style-type: none"> • 1998 Case Earth Awards for Environmental Best Practice • Overall Winner – Best Project • Winner – Projects over \$10M • Regional Winner – South Australia
CSIRO Prospective Radioactive Sheep Project	This project involved the exhumation, sorting, screening, classification and disposal of around 100 m3 of buried potentially radioactive sheep remains. The radioactive waste component was sent to a secure storage repository for radioactive waste.	Value 1.5M, Feb 03 – Apr 03
Penny's Bay Remediation, Hong Kong \$70M 50,000 m ³ metals 50000 m ³ ITD 16000 bioremedaiton	This project involved excavation classification an treatment of 116,000 m ³ of fill contaminantd by hydrocarbons, metals, PCBs and dioxins. Metal contaminated soil (50,000 m ³) was solidified by addition of cement in a pug mill. Hydrocarbon contaminnted soil (16,000 m ³) was bioremediated in an engineered cell. The PCB and furan contaminated soil (50,000 m ³) was treated in an indirectly–heated thermal desorption plant, and the PCB and furan residue was incinerated in a high temperature incinerator.	The Pennys Bay Project was the largest and most complex contaminated site remediation ever conducted in Hong Kong. Undertaken on a fast track schedule, to faciite the consturctin of the Disneyland sie in Hon Kong, the project identified the need for a combination of remediation methods. The project achieved a saving of US\$25 million from the original contract value and the project was also delivered ahead of schedule.
D-Limonene – Activated Persulfate Treatment of Chemical Plant in Flowood, MS (Design and recirculation application by MECX in association with USEPA Superfund program)	Recirculation In-Situ Chemical Oxidation with a biodegradable solvent treatment of Pentachlorophenyl tars source area of approximately 200 tons of saturated soil. The critical aspect of the treatment was to effectively dissolve and desorb both LNAPL and DNAPL bound in sitly clay with sand stringers without pressurizing the system.	On-site project duration was two days for the application. The treatment duration was over 5 weeks and resulted in 88% removal efficiency of total mass of tars and non-aqueous phase liquid in soil (NAPL). 100% removal of NAPL from groundwater.
MC2 - Greensboro, North Carolina USA	Largest insitu thermal remediation project in the world involving treatment of 200,000m ³ of sandy silt to silty clay contaminated with TPHs, TBA and MTBE. The estimated mass of product in situ was 1.7ML. The remedial goal was removal of >80% of the mass insitu. The main challenge was working on an operating hydrocarbon site. This involved close liaison with the site management and adherence to site specific safety protocols.	The project was awarded the National Groundwater Association's Outstanding Project of the Year award for 2007. The remedial system comprised 154 electrodes and 38 dual phase recovery wells. The electrode spacing was around 7m and the target zone was heated to 100°C. More than 85% of the estimated insitu mass was recovered.