



Civil Engineering Capability Statement

Expert advice and design in all areas of civil works – from pavement failure investigation to civil structure design, management of construction and installation of an engineered solution.

Pavements, hardstands and roads

Industrial pavements, hardstands and roads (including traffic and storage areas) are typified by high axle loads, contact tyre pressures, tight turning movements of specialist equipment and high storage loads. pitt&sherry provides an integrated and comprehensive service spanning the full asset life cycle that includes:

- Design of pavement geometry, including assessment of drainage and environmental effects
- Selection of surfacing
- Sub-grade evaluation
- Design and specification
- Performance and condition monitoring, including field testing
- Rehabilitation design for existing pavements and hardstands
- Unbound granular pavements



Civil structures

Structural engineering encompasses buildings, bridges, wastewater treatment facilities and maritime structures such as wharves and moorings. We have 40 years experience providing practical and effective solutions to a wide range of industrial needs including:

- Foundation design for a range of equipment including conveyors, tanks and crushers
- Existing structure check for integrity and capacity
- Design, documentation and construction supervision for wastewater treatment facilities, including in-ground storage ponds
- Storm water hydraulic modelling and associated infrastructure
- Design of concrete storage tanks

Geotechnical engineering

Reliable knowledge of ground properties and behaviour is a prerequisite for the safe and economic performance of structures. Without adequate site investigation, ground is a hazard that may jeopardise a project and its environment. pitt&sherry provides:

- Design, management and reporting of geotechnical investigations
- Borehole supervision and field logging
- Geotechnical logging of core and inclusion of core test data
- Penetrometer testing and interpretation
- Instrumentation and monitoring of ground movement, borehole settlement gauges and inclinometers
- Instrumentation and monitoring of groundwater
- Groundwater sampling and monitoring
- Laboratory testing of samples



MOSS surface modelling

MOSS is a powerful civil engineering design tool used on projects involving modification of the earth's surface.

Three-dimensional surface modelling technology addresses the needs of engineers working in a range of civil engineering disciplines.

pitt&sherry has substantial ability in the application of MOSS as a design tool in areas such as:

- Site development
- Quarry design and rehabilitation
- Road design
- Car parks
- Pavement overlay design and asset rehabilitation
- Railways, ports, mining, dams and pipelines