



Typical Industrial Building Projects

Jeffery and Katauskas have completed over 21,000 jobs since the company was formed in 1976. Numerous projects involving buildings ranging in size from small single level amenities blocks to very large warehouses, ramps, roads and car parks. Some examples are given below of industrial building projects in which the company has been involved, from preliminary investigation through to construction supervision stages.

Project	Owner/Client	Description
Multi-User Depot, French Street, Werrington	Dept of Defence	Geotechnical and environmental investigations for buildings, roads, hardstand areas and retention ponds to be constructed over a three hectare site located within undulating terrain cut by a watercourse. 19 boreholes were drilled, revealing a profile of residual silty clays over siltstone and shale. A comprehensive geotechnical and chemical laboratory program was undertaken to assess soil reactivity, dispersion, erodability, aggressivity and salinity. Advice was given on site preparation, cut and fill earthworks, treatment of the highly dispersive clays, batters to building platforms and retention bunds, surface drainage and revegetation to control salinity, building footings, soil aggression and buried structures, on-ground floor slabs, hardstand and road pavements.
Freightcorp Intermodal Centre, Forrest Road, St. Marys	Sinclair Knight Merz	Geotechnical review of previous geotechnical investigations, materials and earthworks specifications, site records and the substantially completed fill earthworks. A geotechnical model was established for the site and an assessment made of the engineering performance of the deep ripped sandstone fill, an incorporated old rail embankment, and the underling residual clays.
Proposed Warehouse Development, Coward Street, Mascot	Walker Civil Contracting	Geotechnical review of previous geotechnical investigations and site records for a very large site. A geotechnical model was established for the site and an assessment made of the engineering performance of the underlying soft clays and sands in a deep alluvial profile covered with variable fill.
Presentation Shop, Maintrain Maintenance Centre, Manchester Road, Auburn	Scott Wilson Irwin Johnston	Geotechnical investigation for a proposed warehouse with rail tracks, inspection pits, cranes and hardstand areas on a site underlain by uncontrolled fill and moisture softened highly reactive clays over shale bedrock. Design advice was given on treatment of the fill, bridging layers over the clays, pit excavation and retention, building and pit footings, and on-ground floor slabs.

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Project	Owner/Client	Description
Warehouse Extensions and Additions Salisbury Road, Asquith	Storage Australia Hornsby Pty Ltd	Geotechnical investigation for warehouse extensions and additions at the crest of a very steep hillside with deep fill over natural sands and sandstone. Design advice was given on slope stability issues, deep excavations and retention, cut face treatment, strengthening of existing retaining walls and sandstone block wall construction.
Resmed Campus Development, Bella Vista	Resmed Limited	Detailed geotechnical investigation for proposed factory/industrial buildings and future multi-storey office buildings to be constructed on a 12 hectare site underlain by deep fill and residual silty clays which graded into shale bedrock at irregular depths. Major site earthworks were required for construction of suitable building platforms. Augered and cored boreholes were completed and an assessment made of the condition of the existing fill. Design advice was given on earthworks, excavations, retention, building footings and pavements.
Warehouse/Office Distribution Centre Huntingwood	St Hilliers Pty Ltd / Canon Australia	Detailed investigation of a large site revealed a deep weathering profile with dispersive clay soils. High quality construction on a sloping site required intensive planning and supervision of earthworks including lime stabilisation of the whole site area.
Warehouse Refurbishment Toll Complex Greenacre	Goodman Fielder	Detailed investigation for refurbishment of a large warehouse. The existing slab was underlain by variable subsurface conditions consisting of poorly compacted fill, clays and weathered rock. Investigations were required to provide advice for increasing slab levels by placement up to 2m of fill. Other aspects of the refurbishment included conveyor gantry bridges, silos, and plant footings.
Tooheys Brewery, Lidcombe	Tooheys Pty Ltd	Detailed investigation for large warehouse, associated car park and elevated conveyor belt. Variable subsurface conditions were encountered with variable depths of fill and very soft/soft silts/clays encountered along Haslam Creek while very stiff to hard clays were encountered over other sections of the site. Differential settlement of slabs was of major concern with up to 1m of fill placed over parts of the site and floor loads of 40kN/m ² with raking loads of up to 60kN.
Proposed Warehouse Development, Great Western Highway, Arndell Park	Australand	Geotechnical investigation for new warehouse, office block and hardstand areas. Major site earthworks with significant retaining walls were required for the construction of building platforms. Design advice was provided for earthworks, retention, building footings, floor slabs and pavements. Earthworks testing of compaction was undertaken. Geotechnical inspections were carried out during construction of building and retaining wall footings.