

Nigel Wan



Current Position

Geotechnical Engineering

Associate Geotechnical Engineer

Profession

Engineer

MIEAust CPEng NER VBA RPEQ

Years' Experience

12 Years plus

Joined Protest

2018

Education

Bachelor of Engineering (Hons)

Civil & Environmental

Summary of Experience

Nigel is a Chartered Professional Engineer (CPEng) and currently leads the geotechnical engineering branch in Melbourne. Nigel is a Senior Geotechnical Engineer with over twelve years of combined experience in geotechnical engineering, construction material testing, construction management and earthworks. While working for numerous Australian and New Zealand's leading geotechnical consultancy companies, Nigel has demonstrated holistic experience combining both engineering and construction industry with a proven track record in delivering projects front to end.

Nigel's expertise in the geotechnical field includes :

- Geotechnical investigations, site investigations, asset management and technical knowledge in drilling methods
- Site Classifications and Residential Subdivisions
- Earthworks, construction materials and geotechnical testing
- Construction observations including bearing capacity testing, supervision, and slope stability analyses
- Foundation design – shallow and deep foundation
- Pile Dynamic Testing and Pile Integrity Testing
- Groundwater & Settlement Monitoring
- Temporary Working Platform for piling rigs and cranes
- Retaining/Basement Wall Design
- Forensic Assessment or Distressed Building

During his career, Nigel has travelled all over New Zealand and Fiji undertaking Pile Dynamic Testing, Pile Integrity Testing and SPT Calibration which ultimately equipped him with expertise on various types of drilling rigs/methods and also testing a vast range of pile types.

Nigel also has significant experience in providing forensic geotechnical assessment having worked over hundreds of distressed properties and landslides in New Zealand (under the Earthquake Commission Act) and in Victoria (especially within the reactive clay region). Nigel is also a peer reviewer to reports in Melbourne and attends VCAT hearings as expert witness for geotechnical related disputes or claims.

Significant Project Experience

- Development of various Victorian School Building Authority (VSBA) projects around Victoria
- Geotechnical survey of Deakin University Waurn Pond Campus for infrastructure water management plan
- Development of Sinclair's Wetland and residential subdivision in Deanside
- Development of University of Melbourne Parkville Campus involving refurbishment of multiple buildings and redevelopment of new multi-storey and basement buildings within campus.
- Development of a multi-storey building with basement in Alfred St, North Melbourne
- Development of a boutique multi-storey building with heritage façade & basement in Gordon Street, Cremorne.
- Development of Armstrong Creek Town Centre.
- Major Projects Victoria – Retaining Wall Design for Duncan Rd Interchange and Platform Design for the North-East Link project
- Airservices Australia, ATSC Extension, Melbourne Airport.
- Elizabeth Street / Flinders St, Melbourne CBD Streetscape Upgrade.
- City West Water Sewer Upgrade in Melbourne CBD
- Cross Hole Seismic for void locating in Karst Formation, Warrnambool
- Design of large shoring wall for Tricare in Brunswick, VIC
- Development of various multi-storey basement in Melbourne
- Geotechnical investigation for the redevelopment of RMIT city campus
- Construction phase of Melbourne Park redevelopment for Australian Open 2017
- Construction of new multi-storey apartments in Collingwood and Fitzroy, Melbourne
- Construction of Holmesglen Private Hospital, Moorabin and South West Regional Cancer Centre, Melbourne
- Refurbishment of Royal Victoria Eye & Ear Hospital, Melbourne and La Trobe University, Melbourne
- Construction and refurbishment of Parliament House, Tasmania
- Land reclamation and conversion into a public park for a duration of 3 years at Onehunga Foreshore, Auckland, New Zealand
- Project team at Waterview Connection, comprising 2.4km tunnel and 46km motorway in Auckland, New Zealand
- Inspection of entire Auckland Wharf on the integrity of existing piles and developed a management plan for Auckland Council, New Zealand