



GEOTECHNICAL ENGINEERING



Vertex's geotechnical engineering team uses a comprehensive understanding of soil and rock mechanics to investigate subsurface conditions to be used in the evaluation of the stability of slopes and embankments or the design of structures, foundations and earthworks operations.

We provide a wide range of geotechnical engineering services for buildings, land developments, infrastructures, dams and levees, mining, oil and gas and pipeline industries.

Services

- Geotechnical Site Investigations & Reconnaissance
- Borrow Pit Assessment, Classification & Mapping
- Embankment & Natural Slope Stability Analysis
- Pit Slope Stability Analysis
- Erosion Control Assessment
- Excavation Stability Assessment & Dewatering
- Design of Storage Ponds
- Design of Storage Tank Pads
- Design of Infrastructure Foundations
- Design & Analysis of Retaining Walls (MSE Walls & Reinforced Earth Structures)
- Pile Foundation Installation Monitoring, Inspection & Pile Load Testing
- Foundation Bearing Capacity Assessment
- Design & Analysis of Pavement Structures
- Earthworks Construction Monitoring & Inspection
- Material Testing & QA/QC Inspection (Soil & Concrete)
- Tailings Management, Monitoring & Testing
- Vibration & Noise Monitoring
- Groundwater Assessment & Monitoring