



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.

Vertex maintains local knowledge of regulatory requirements through our team of engineering and environmental professionals located throughout our large network of offices. This structure enables us to ensure that our clients maintain regulatory compliance with various standards including, but not limited to:

- Federal Highway Administration
- US Environmental Protection Agency
- US Army Corps of Engineers
- International Building Code
(Including jurisdictional amendments)

Our Professional Engineers maintain certification with regulators within various states including California, Texas, New Mexico and North Dakota.

Services

- Geotechnical Site Investigations
- Instrumentation Planning, Installation, Monitoring & Analysis
- Slope Stability Analysis
- Erosion Control Assessment
- Earthworks Construction Monitoring
- Planning of Materials Testing Program & Results Evaluation
- QA/QC Program Design & Results Evaluation
- Groundwater Assessment & Monitoring
- Geohazard Assessment & Mitigation
- Assessments for HDD Pipeline Crossings
- Foundation Design, Assessment, & Installation Monitoring (including piles)
- Storage Pond & Tank Pad Design
- Stormwater & Culvert Design
- Foundation Design & Assessment (Including Piles)
- Retaining Wall Design (MSE Walls & Reinforced Earth Structures)
- Tailings Planning, Monitoring & Testing
- Borrow Pit Assessment, Classification & Mapping