

GEOTECHNICAL INVESTIGATION

Olsson Associates' Geotechnical team likes to get to the bottom of things — and they aren't afraid to get their hands dirty.

When our clients are investing millions of dollars in a project—whether it's a multistory office building, a new residential development, an industrial facility, a highway, a dam, or a sewer system—they need to know everything about the project site. They also need to know how construction materials might affect their project and its end-users.

We offer a wide variety of investigative services, including deep or shallow foundations, slope stability analysis, lagoon and landfill investigations, elevated and at-grade water tower and tank structures, dam structures, and other earth retention structures. Our experienced staff members can provide complete quality control testing services for earthwork, concrete construction, and footing inspections. We also offer in-house and field laboratory testing, as well as environmental testing.



GEOTECHNICAL | SERVICES

Investigation

- Shallow and Deep Foundations
- Slope Stability Studies
- Commercial and Residential Developments
- Utility and Treatment Plant Infrastructure
- Industrial Facilities
- Roadway Embankments, Bridge Foundations, and Pavement Design
- Earth Dam Embankments
- Earth Retention Systems
- Elevated and At-Grade Tower and Tank Structures
- Lagoon Investigations

Laboratory Testing Services - AASHTO - Accredited (per ASTM Specifications)

Soil Laboratory Services

- Soil Classification
- Standard/Modified Proctor Test
- Relative Density Test
- Unconfined Compression Test
- Moisture Content
- Dry Density Test
- One-Dimensional Consolidation Test
- Consolidated-Undrained Triaxial Test
- Flex-Wall Permeability Test
- California Bearing Test (CBT)
- LA Abrasion Test
- Particle Distribution
- Sieve Analysis
- Atterberg Limits
- Dispersion Test
- Corrosivity/Organic Test

Concrete Laboratory Services

- Concrete Cylinder Breaks
- Mortar Cube Breaks
- Grout Prism Breaks
- Masonry Block Breaks
- Masonry Absorption Test
- Flexure Strength Test
- Concrete Shrinkage/Swell Test

Asphalt Laboratory Services

- Extraction/Gradation Test
- Theoretical Mass Specific Gravity (MSG) Rice Method
- Marshall Test
- Bulk Specific Gravity
- Core Thickness Testing

Steel Laboratory Services

- Tensile/Yield Strength Test
- Bend Test
- Macrotech Test
- Magnetic Particle Testing
- Ultrasonic Testing
- Liquid Dye Penetrant Test

Drilling Services

- Continuous Flight Auger Drilling
- Hollow Stem Drilling
- Rock Coring (NQ Drilling)
- Continuous Sampling
- Packer Tests

We strive to provide the information our clients need in a clear and forthright manner to enhance understanding of the project and allow for concise and efficient communication with the contractor.

