

Triaxial Testing

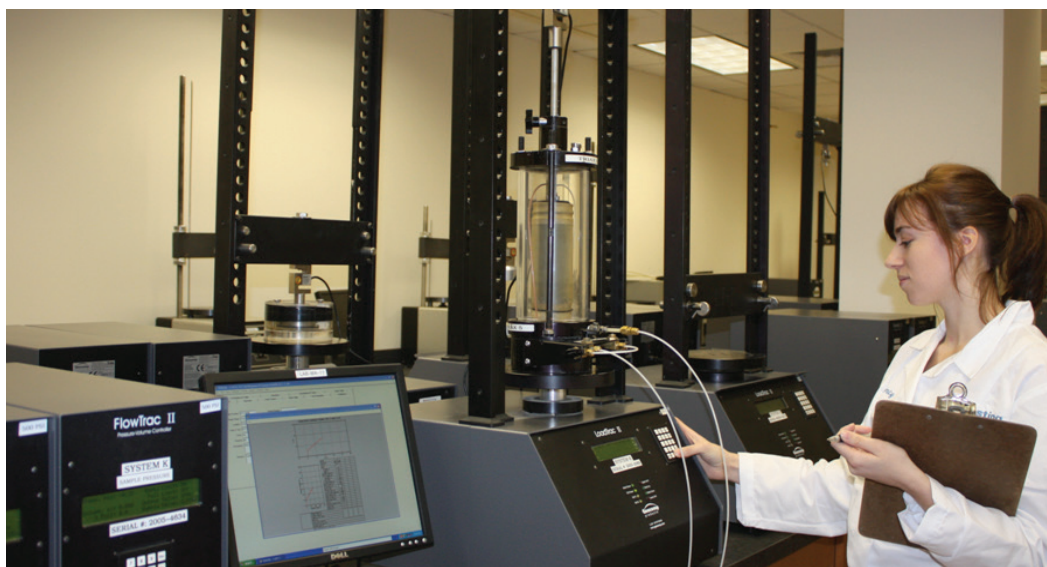
GeoTesting Express, Inc. (GTX), is a world-wide leader in performing triaxial testing. The combination of our highly experienced and educated staff and our fully automated laboratory testing equipment makes us the industry experts at this important and complex test.

Capabilities of GeoTesting Express' Triaxial Testing

GeoTesting Express is a world-wide leader in performing triaxial testing. The combination of our highly experienced and educated staff and our fully automated laboratory testing equipment makes us the industry experts at this important and complex test. We utilize state-of-the-art automated test equipment enabling us to perform triaxial testing twenty-four hours a day, seven days a week. Our laboratories are accredited by the American Association of State Highway and Transportation Officials (AASHTO) and the American Association for Laboratory Accreditation (A2LA)♦. We are validated by the United States Army Corps of Engineers (USACE) for performing these tests. Our Chief Engineer, Dr. W. Allen Marr, co-authored a paper with T. William Lambe titled "*Stress Path Method: Second Edition*" appearing in the Journal of the Geotechnical Engineering Division, June 1979.

Typical Triaxial Tests Performed	Test Method
Unconsolidated Undrained (UU)	ASTM D2850♦ / AASHTO T 296
Consolidated Drained (CD)	ASTM D7181♦ / USACE EM1110-2-1906
Consolidated Undrained (CU) with Pore Pressure Measurements	ASTM D4767♦ / AASHTO T 297
Cyclic—Modulus & Damping	ASTM D3999
Cyclic—Load Controlled	ASTM D5311♦
Stress Path	GTX-S1010
Permeability	ASTM D5084♦ / USACE EM1110-2-1906

♦ Tests for which GeoTesting Express is accredited by A2LA



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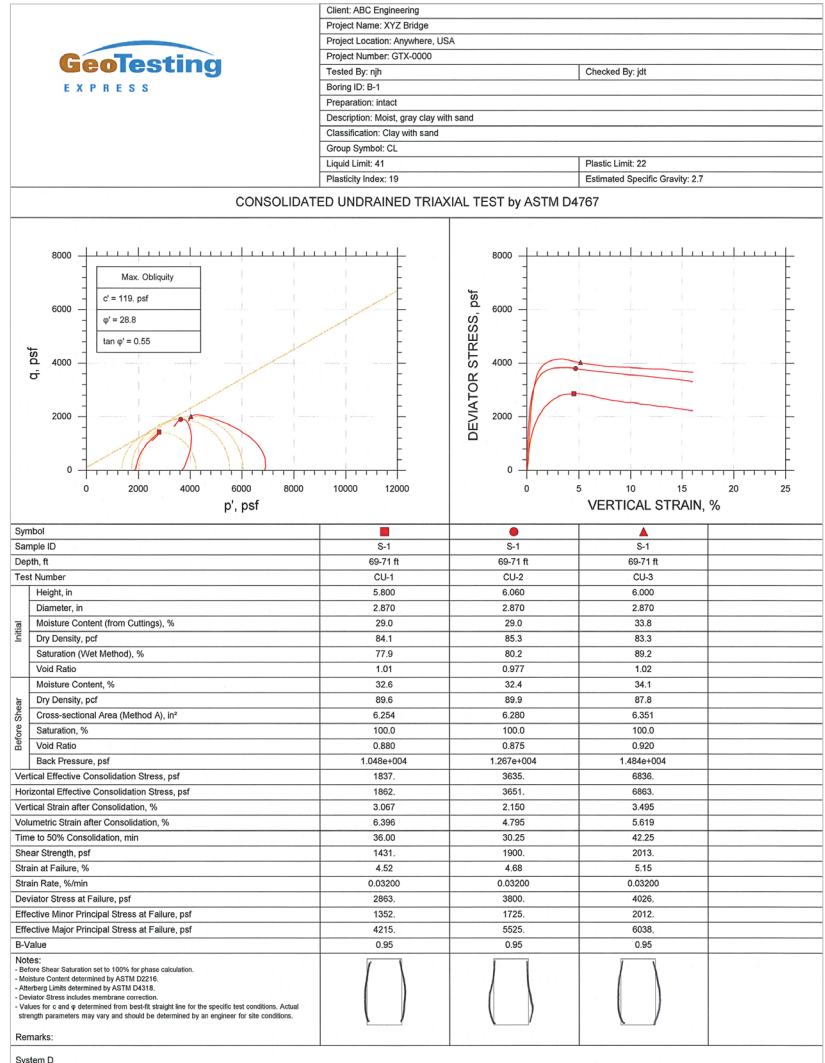
Full Service Laboratory and Field Testing of Soil, Rock and Geosynthetics

We can control the following parameters while performing triaxial tests:

- back pressure saturation
- consolidation (isotropic, anisotropic, K_0)
- drained, undrained, or partly drained
- compression and extension
- static and cyclic loading
- any stress path
- elevated or decreased temperature
- specimen size (1.4" to 6" diameter)
- strain rate
- consolidated drain
- permeability



Fully automated triaxial test system



Typical CU Triaxial Test Series Output

GTX has developed a special container for shipping undisturbed thin-walled tube samples which minimizes disturbances in sensitive soils. This container conforms to ASTM D4220, is reusable, lightweight and easy to use. The container's composition, shape and size ensures it is kept upright throughout the shipping process.



Validated by the U.S. Army Corps of Engineers

Accredited by:

