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. 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.

### Capabilities of GeoTesting Express’ Triaxial Testing

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### Typical Triaxial Tests Performed

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unconsolidated Undrained (UU)</td>
<td>ASTM D2850†/ AASHTO T 296</td>
</tr>
<tr>
<td>Consolidated Drained (CD)</td>
<td>ASTM D7181†/USACE EM1110-2-1906</td>
</tr>
<tr>
<td>Consolidated Undrained (CU) with Pore Pressure Measurements</td>
<td>ASTM D4767†/ AASHTO T 297</td>
</tr>
<tr>
<td>Cyclic—Modulus &amp; Damping</td>
<td>ASTM D3999</td>
</tr>
<tr>
<td>Cyclic—Load Controlled</td>
<td>ASTM D5311†</td>
</tr>
<tr>
<td>Stress Path</td>
<td>GTX-S1010</td>
</tr>
<tr>
<td>Permeability</td>
<td>ASTM D5084†/USACE EM1110-2-1906</td>
</tr>
</tbody>
</table>

† Tests for which GeoTesting Express is accredited by A2LA

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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.

We can control the following parameters while performing triaxial tests:

- back pressure saturation
- consolidation (isotropic, anisotropic, $K_o$)
- 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

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, $K_o$)
- 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