



**USACE CERTIFICATE
OF
LABORATORY VALIDATION**



Geotechnics, Inc.

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has demonstrated, by abbreviated audit of its AASHTO accreditation, or by inspection of required records, equipment, procedures, facilities, and/or final reports, its proficiency to perform testing of construction materials, as established by the quality standards of AASHTO R 18 guidance and the requirements of the applicable ASTM standards.

THIS USACE CERTIFICATE OF LABORATORY VALIDATION IS ACCURATE AS OF ITS DATE AND TIME OF GENERATION:

04 JAN 2022 AT 13:51 HOURS

ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 05/17/2023

PLEASE CONFIRM THE CURRENT VALIDATION STATUS OF THIS LABORATORY USING THE SEARCH FEATURE ON OUR PUBLIC WEBSITE: <https://mtc.erdc.dren.mil>

A handwritten signature in black ink, appearing to read "Chad A. Gartrell", is written over a horizontal line.

Chad A. Gartrell, PE, Director
USACE Materials Testing Center
Vicksburg, Mississippi, USA

AGGREGATE

Aggregate - C 29 - Opt - Unit Weight and Voids in Aggregate
Aggregate - C 40 - Opt - Organic Impurities
Aggregate - C 88 - Opt - Sulfate Soundness
Aggregate - C 117 - Req - Material Finer than 75 µm (No. 200) Sieve
Aggregate - C 127 - Req - Specific Gravity & Absorption in Coarse Aggregate
Aggregate - C 128 - Req - Specific Gravity & Absorption in Fine Aggregate
Aggregate - C 131 - Opt - Los Angeles Abrasion Resistance on Small-Size Coarse Aggregate
Aggregate - C 136 - Req - Sieve Analysis of Aggregates
Aggregate - C 142 - Opt - Clay Lumps
Aggregate - E 329 - Opt - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
Aggregate - C 535 - Opt - Los Angeles Abrasion Resistance on Large Size Coarse Aggregate
Aggregate - C 566 - Opt - Total Moisture Content
Aggregate - C 702 - Opt - Reducing Samples to Testing Size
Aggregate - C 1077 - Opt - Concrete and Concrete Aggregate Testing Standards (Quality Standards)
Aggregate - D 4791 - Opt - Flat and Elongated Particles in Course Aggregate
Aggregate - D 5821 - Opt - Percentage of Fractured Particles in Coarse Aggregate

CONCRETE

Concrete - C 31 - Req - Making and Curing Test Specimens in the Field
Concrete - C 39 - Req - Compressive Strength of Cylindrical Specimens
Concrete - C 138 - Req - Unit Weight and Air Content by Gravimetric
Concrete - C 143 - Req - Slump
Concrete - C 172 - Req - Sampling
Concrete - C 231 - Req - Air Content by Pressure ***required if C173 not performed***
Concrete - E 329 - Opt - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
Concrete - C 511 - Opt - Moist Cabinets, Moist Rooms, Water Storage Tanks
Concrete - C 1064 - Req - Temperature of Concrete
Concrete - C 1077 - Opt - Concrete and Concrete Aggregate Testing Standards (Quality Standards)
Concrete - C 1231 - Opt - Unbonded Caps

GEOTEXTILES

Geotextiles - D 374 - Opt - ASTM Geosynthetic Testing Standard
Geotextiles - D 413 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 751 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 792 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 882 - Opt - ASTM Geosynthetic Materials Testing Standard

Geotextiles - F 904 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 1004 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 1204 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 1238 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 1505 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 1593 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 1603 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 3786 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4218 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4491 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4533 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4595 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4632 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4716 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4751 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4833 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4884 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 4885 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5035 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5199 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5261 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5321 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5323 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5596 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5884 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5887 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5890 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5891 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5993 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 5994 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6214 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6241 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6243 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6364 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6392 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6496 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6636 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6693 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6766 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 6768 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 7003 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 7004 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 7005 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 7179 - Opt - ASTM Geosynthetic Materials Testing Standard
Geotextiles - D 7466 - Opt - ASTM Geosynthetic Materials Testing Standard

ROCK

- Rock - D 3967 - Req - Tensile Strength, Splitting (Brazilian) Method
- Rock - D 4543 - Req - Preparing Rock Core Specimens and Determining Tolerances
- Rock - D 5607 - Req - Laboratory direct Shear Tests on Rock Under Constant Normal
- Rock - D 5731 - Req - Point Load Index
- Rock - D 7012 - Req - Compressive Strength & Elastic Moduli of Rock Core Specimens

SOILS

- Soils - G 51 - Opt - Measuring pH of Soil for Use in Corrosion Testing
- Soils - G 187 - Opt - Measurement of Soil Resistivity Using the Two-Electrode Soil Box Method
- Soils - D 421 - Req - Dry Preparation for Particle Size Distribution & Soil Constants
- Soils - D 422 - Req - Particle Size Analysis
- Soils - D 698 - Req - Compaction Characteristics by Standard Effort
- Soils - D 854 - Req - Specific Gravity of Soils
- Soils - D 1140 - Req - Material Finer than 75 μ m (No. 200) Sieve
- Soils - D 1557 - Req - Compaction Characteristics by Modified Effort
- Soils - D 1883 - Req - CA Bearing Ratio (CBR)
- Soils - D 2166 - Req - Unconfined Compressive Strength
- Soils - D 2216 - Req - Water Content
- Soils - D 2434 - Opt - Permeability of Granular Soils (Constant Head Method) (Withdrawn 2015)
- Soils - D 2435 - Req - One-Dimensional Consolidation Properties
- Soils - D 2487 - Req - Classification of Soils
- Soils - D 2488 - Req - Description & Identification of Soils (Visual-Manual Procedure)
- Soils - D 2850 - Req - Unconsolidated, Undrained Strength in Triaxial Compression
- Soils - D 2937 - Req - Density by Drive Cylinder Method
- Soils - D 2974 - Req - Moisture, Ash, & Organic Matter of Peat & Other Organic Soils
- Soils - D 3080 - Req - Direct Shear Test in Consolidated Drained Conditions
- Soils - D 3740 - Opt - Soil and Rock Testing Standards (Quality Standard)
- Soils - D 4254 - Req - Minimum Index Density
- Soils - D 4318 - Req - Liquid & Plastic Limits & Plasticity Index
- Soils - D 4718 - Opt - Correction of Unit Weight and Water Content for Soils Containing Oversize Particles
- Soils - D 4767 - Req - Consolidated-Undrained Triaxial Compression
- Soils - D 4972 - Opt - pH of Soils
- Soils - D 5084 - Req - Hydraulic Conductivity using a Flexible Wall Permeameter
- Soils - D 6913 - Req - Particle-Size Distribution of Soils Using Sieve Analysis
- Soils - D 6938 - Req - Density and Water Content by Shallow Depth Nuclear Method
- Soils - D 7928 - Opt - Fine Grain Distribution with Hydrometer

