



**USACE CERTIFICATE
OF
LABORATORY VALIDATION**



Geo Testing Express, LLC

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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:**

14 JUL 2022 AT 13:10 HOURS

ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 05/03/2023

PLEASE CONFIRM THE CURRENT VALIDATION STATUS OF THIS LABORATORY USING THE SEARCH FEATURE ON
OUR PUBLIC WEBSITE: <https://mtc.erdcdren.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 - D 75 - Opt - Sampling
Aggregate - C 88 - Opt - Sulfate Soundness
Aggregate - C 117 - Req - Material Finer than 75 μm (No. 200) Sieve
Aggregate - C 123 - Opt - Lightweight Particles
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 - C 1252 - Opt - Uncompacted Void Content of Fine Aggregate (as influenced by particle shape, surface texture, and grading)
Aggregate - D 2419 - Opt - Sand Equivalent Value
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 173 - Req - Air Content by Volumetric ***required if C231 not performed***
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 617 - Opt - Capping Cylindrical Specimens
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

ROCK

Rock - D 3967 - Req - Tensile Strength, Splitting (Brazilian) Method
Rock - D 4543 - Req - Preparing Rock Core Specimens and Determining Tolerances
Rock - D 4644 - Req - Slake Durability of Shales and Weak Rocks
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 - Method C - Uniaxial Comp. Strength

SOILS

Soils - G 51 - Opt - Measuring pH of Soil for Use in Corrosion Testing
Soils - G 57 - Opt - Field Measurement of Soil Resistivity Using the Wenner Four-Electrode Method
Soils - A 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 (Sieve and Hydrometer)
Soils - D 558 - Req - Moisture-Density of Soil-Cement
Soils - D 559 - Req - Wetting & Drying Soil-Cement
Soils - D 560 - Req - Freezing & Thawing Soil-Cement
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 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 4253 - Req - Maximum Index Density by Vibratory Table
Soils - D 4254 - Req - Minimum Index Density
Soils - D 4318 - Req - Liquid & Plastic Limits & Plasticity Index
Soils - D 4546 - Req - One-Dimensional Swell or Settlement Potential
Soils - D 4643 - Req - Determination of Water Content of Soil by Microwave Oven
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 4829 - Opt - Expansion Index of Soils
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