



USACE CERTIFICATE
OF
LABORATORY VALIDATION



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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:

30 JUL 2019 AT 16:13 HOURS

ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 06/13/2021

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

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AGGREGATE

Aggregate - C 29 - Opt - Unit Weight and Voids in Aggregate
Aggregate - C 40 - Opt - Organic Impurities
Aggregate - C 70 - Opt - Surface Moisture in Fine Aggregate
Aggregate - D 75 - Opt - Sampling
Aggregate - C 87 - Opt - Effects of Organic Impurities on Mortar Strength
Aggregate - C 88 - Opt - Sulfate Soundness
Aggregate - CRD 104 - Opt - Fineness Modulus
Aggregate - C 117 - Req - Material Finer than 75 μm (No. 200) Sieve
Aggregate - CRD 120 - Opt - Flat and Elongated Particles in Fine Aggregate
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 - 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 2419 - Opt - Sand Equivalent Value
Aggregate - D 4791 - Opt - Flat and Elongated Particles in Course Aggregate

BITUMINOUS

Bituminous - E 329 - Opt - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
Bituminous - D 2950 - Req - Density of Bituminous Concrete in Place by Nuclear Methods
Bituminous - D 3666 - Opt - Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials

CONCRETE

Concrete - C 31 - Req - Making and Curing Test Specimens in the Field
 Concrete - C 39 - Req - Compressive Strength of Cylindrical Specimens
 Concrete - C 42 - Opt - Drilled Cores and Sawed Beams
 Concrete - CRD-C 61 - Opt - Determining the Resistancy of Fresh Concrete to Washing Out in Water
 Concrete - C 78 - Opt - Flexural Strength by Third Point Loading
 Concrete - C 94 - Opt - Ready Mix Concrete
 Concrete - C 138 - Req - Unit Weight and Air Content by Gravimetric
 Concrete - C 143 - Req - Slump
 Concrete - C 172 - Req - Sampling
 Concrete - C 191 - Opt - Time of Setting of Hydraulic Cement by Vicat Needle
 Concrete - C 192 - Opt - Making and Curing Test Specimens in Laboratory
 Concrete - C 231 - Req - Air Content by Pressure ***required if C173 not performed***
 Concrete - C 232 - Opt - Bleeding of Concrete
 Concrete - E 329 - Opt - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
 Concrete - C 403 - Opt - Time of Setting by Penetration Resistance
 Concrete - C 470 - Opt - Molds for Forming Concrete Test Cylinders Vertically
 Concrete - C 511 - Opt - Moist Cabinets, Moist Rooms, Water Storage Tanks
 Concrete - C 617 - Opt - Capping Cylindrical Specimens
 Concrete - C 938 - Opt - Proportioning Grout Mixtures for Preplaced-Aggregate Concrete
 Concrete - C 939 - Opt - Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)
 Concrete - C 940 - Opt - Expansion - Bleeding of Freshly Mixed Grouts for Preplaced-Aggregate Concrete in the Lab
 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
 Concrete - C 1602 - Opt - Mixing Water Used in the Production of Hydraulic Cement Concrete
 Concrete - C 1611 - Opt - Slump Flow of Self-Consolidating Concrete

MASONRY

Masonry - C 109 - Req - Compressive Strength of Cement Mortars Using Cube Specimens
 Masonry - C 1019 - Req - Sampling and Testing Grout

ROCK

Rock - D 5519 - Opt - Particle Size Analysis of Natural and Man-Made Riprap Materials
 Rock - D 6473 - Opt - Specific Gravity and Absorption of Rock for Erosion Control

SOILS

Soils - API 13 - Opt - API 13B-1 Drilling Fluid (Berntonite Slurry) Test Methods (SG, Visc, pH, Filtrate Loss, Sand Cont)
 Soils - D 422 - Req - Particle Size Analysis
 Soils - D 698 - Req - Compaction Characteristics by Standard Effort
 Soils - D 1140 - Req - Material Finer than 75 μ m (No. 200) Sieve
 Soils - D 1556 - Req - Density & Unit Weight by Sand Cone
 Soils - D 1557 - Req - Compaction Characteristics by Modified Effort
 Soils - D 2168 - Req - Calibration of Laboratory Mechanical-Rammer Soil Compactors
 Soils - D 2216 - Req - Water Content
 Soils - D 2487 - Req - Classification of Soils
 Soils - D 2488 - Req - Description & Identification of Soils (Visual-Manual Procedure)
 Soils - D 2974 - Req - Moisture, Ash, & Organic Matter of Peat & Other Organic Soils
 Soils - D 3740 - Opt - Soil and Rock Testing Standards (Quality Standard)
 Soils - D 4318 - Req - Liquid & Plastic Limits & Plasticity Index
 Soils - D 4380 - Opt - Density of Bentonitic Slurries
 Soils - D 4381 - Opt - Sand Content by Volume of Bentonitic Slurries
 Soils - D 4718 - Opt - Correction of Unit Weight and Water Content for Soils Containing Oversize Particles
 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