



## Laboratory Testing Capabilities

NST offers a wide range of in-house laboratory testing services for soils; rock and construction materials using the guidelines prescribed ASTM specifications. NST is accredited by the following organizations: **AASHTO, AMRL, ACI, CCRL and US Army Corps of Engineers.**

### Asphalt Testing

- Mix Design Verification
- Superpave Mix Design Development
- Gyrotory Compaction
- Theoretical & Bulk Specific Gravity
- Bituminous Content by Extraction / Ignition Oven

### Concrete Testing

- Unit Weight of Concrete
- Concrete Core Preparation
- Concrete Compression Testing – Cylinders & Cores
- Concrete Beam Testing – Three Point Loading
- Compressive Strength Testing of Concrete/Mortar Cubes

### Soils Testing

- Soil Classification
- Gradation Analysis (Washed & Unwashed)
- Combined Analysis (Hydrometer & Sieve)
- Specific Gravity Determination
- Hydrometer Analysis
- Atterberg Limits Determination (LL, PL, PI)
- Organic Content
- Shrinkage Limit
- Density Determination – Proctor Testing
- Water Content Determination
- pH Determination
- Laboratory Vane
- Pre-Cast, Pre-Stressed Cone Inspections
- Consolidation Testing
- Modified Proctor
- Cone Penetrometer Tests
- Standard Proctor
- Modified Proctor
- Sand Equivalent
- Hydraulic Conductivity
- Rapid Carbonate Content



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